

BEFORE THE PUBLIC UTILITIES COMMISSION  
OF THE STATE OF HAWAII

In the Matter of the Application )

of )

MOLOKAI PUBLIC UTILITIES, INC. )

For review and approval of rate )  
increases; revised rate schedules; and )  
revised rules. )

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) Docket No. 2009-0048

**MOLOKAI PUBLIC UTILITIES, INC.'S RESPONSES  
TO WEST MOLOKAI ASSOCIATION'S  
SUPPLEMENTAL INFORMATION REQUESTS**

and

**CERTIFICATE OF SERVICE**

MORIHARA LAU & FONG LLP

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**FILED**  
2009 DEC 21 P 2:35  
PUBLIC UTILITIES  
COMMISSION

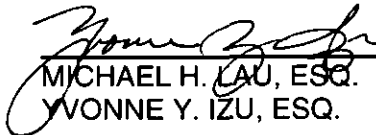
BEFORE THE PUBLIC UTILITIES COMMISSION  
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**MOLOKAI PUBLIC UTILITIES, INC.'S RESPONSES  
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COMES NOW, MOLOKAI PUBLIC UTILITIES, INC., by and through its attorneys,  
Moriyara Lau & Fong LLP, hereby submits its Responses to West Molokai Association's  
Supplemental Information Requests consistent with the Stipulated Regulatory Schedule  
(Exhibit "A") contained in the Stipulated Prehearing Order, filed on November 6, 2009.

DATED: Honolulu, Hawaii, December 21, 2009.

  
\_\_\_\_\_  
MICHAEL H. LAU, ESQ.  
YVONNE Y. IZU, ESQ.

Moriyara Lau & Fong LLP  
Attorneys for MOLOKAI PUBLIC UTILITIES, INC.

**MOLOKAI PUBLIC UTILITIES, INC.'S RESPONSES TO WEST MOLOKAI  
ASSOCIATION'S SUPPLEMENTAL INFORMATION REQUESTS**

**DOCKET NO. 2009-0048**

**WMA-SIR-101**      **Re: Response to WMA-IR-102**

- a. Please provide a tabulation of the measured (metered) volume of water delivered to WOM at the Kualapuu tap and at the Maunaloa Reservoir connection, on a monthly basis, for the years 2004 through 2009.

**RESPONSE:** See Attachment WMA-IR-119 which shows the monthly water delivered to Maunaloa from July 2007 through October 2009. Data for September 2005 to June 2007 is shown on Attachment WMA-SIR-101. The Company cannot locate the readings prior to September 2005. See Attachment CA-IR-35g filed in Docket No. 2009-0049 for water delivered at the Kualapuu tap from March 2006 to August 2009. Data for the prior months is not available because the meter was broken. Usage for September and October at the Kualapuu tap was 2,040,000 gallons and 1,768,000 gallons respectively.

**SPONSOR:** Robert O'Brien

**ATTACHMENT  
WMA-SIR-101**

## MOLOKAI PUBLIC UTILITIES

Docket No. 2009-0048

## Mauanaloa Total Usage

Line #	Month	Maunaloa Reading	Moana Makani Reading	Total Reading at Maunaloa	Total for Moana Makani Only	Total Mauanaloa Only
1	9/5/2005	740494	42100			
2	Sep-05	743069	42650	2,575	550	2,025
3	Oct-05	745969	43303	2,900	653	2,247
4	Nov-05	748620	44135	2,651	832	1,819
5	Dec-05	751203	44979	2,583	844	1,739
6	Jan-06	754503	46035	3,300	1,056	2,244
7	Feb-06	757080	46900	2,577	865	1,712
8	Mar-06	759605	47518	2,525	618	1,907
9	Apr-06	762322	48373	2,717	855	1,862
10	May-06	765334	49268	3,012	895	2,117
11	Jun-06	768697	50348	3,363	1,080	2,283
12	Jul-06	772209	51385	3,512	1,037	2,475
13	Aug-06	776000	52307	3,791	922	2,869
14	Sep-06	779672	53615	3,672	1,308	2,364
15	Oct-06	782858	54433	3,186	818	2,368
16	Nov-06	785675	55235	2,817	802	2,015
17	Dec-06	788883	56414	3,208	1,179	2,029
18	Jan-07	792446	57626	3,563	1,212	2,351
19	Feb-07	795781	58694	3,335	1,068	2,267
20	Mar-07	800000	59827	4,219	1,133	3,086
21	Apr-07	804581	61060	4,581	1,233	3,348
22	May-07	810405	62680	5,824	1,620	4,204
23	Jun-07	814211	63935	3,806	1,255	2,551

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**WMA-SIR-102**      **Re: Response to WMA-IR-103**

- a.      In prior documentation, the capacity of the Maunaloa Reservoir has been specified as 3.0 MG. Please advise as to the actual capacity of this storage reservoir, as well as the capacity of the reservoir normally utilized.

**RESPONSE:**      The current actual capacity, limited by the liner installed, is approximately 2.0 MG. The capacity normally utilized is 2.0 MG.

**SPONSOR:**      Robert O'Brien

**MOLOKAI PUBLIC UTILITIES, INC.'S RESPONSES TO WEST MOLOKAI  
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**WMA-SIR-103**

**Re: Response to WMA-IR-105**

- a. In PUC Docket No. 2002-0371, MPU's response to CA-IR-6 states that Waiola O Molokai made arrangements with the Company to purchase up to 100,000 gallons per day of well water from Well #17 as a source of supply for WOM's customer base in the Kualapuu area. Said arrangements appear to have been made in the early 1990's time frame. Please provide a copy of these arrangements and confirm that they are still in effect. If superseded, please provide a copy of the contractual agreement or other understanding covering the bulk sales of Well #17 water to WOM.

**RESPONSE:**

See Attachment WMA-SIR-103a. Currently, the Company is providing water to WOM at the Kualapuu Tap under the tariff approved by the Commission in Docket No. 02-0371 as modified by Docket No. 2008-0115.

- b. How does the Company intend to apply the proposed fuel adjustment cost factor to the Kualapuu bulk sales transactions with WOM?

**RESPONSE:**

The Company intends to apply the same procedure used for all customers which would use the water usage billed monthly.

**SPONSOR:**

Robert O'Brien

**ATTACHMENT**  
**WMA-SIR-103a**



## Kaluakoi Resort

September 12, 1985

Molokai Ranch, Ltd.  
700 Richards Street, Suite 1204  
Honolulu, Hawaii 96813

Re: Sale of Water at Kualapu'u

Gentlemen:

This letter will confirm the terms on which Kaluakoi Corporation ("Kaluakoi") will sell water to Molokai Ranch, Ltd. ("Molokai Ranch") at Kualapu'u, on the Island of Molokai.

1. Kaluakoi shall provide up to 100,000 gallons of water per day to Molokai Ranch at a location (hereafter called the "Location") to be mutually agreed upon in the vicinity of Kualapu'u on the Island of Molokai. Molokai Ranch shall have the obligation to notify Kaluakoi at least forty-eight (48) hours in advance how much water it desires to purchase, if any, and after receipt of such notice Kaluakoi shall be obligated to sell such quantity to Molokai Ranch, but only out of such water as may be available, if any, at Kualapu'u. Kaluakoi will have no liability if water is unavailable at Kualapu'u for any reason, including without limitation a breakdown of the pump or other facilities.

2. The water being sold hereunder will be metered at a meter to be installed at the Location at the expense of Molokai Ranch, which meter will measure the quantity of water which is pumped at Kualapu'u and purchased by Molokai Ranch. Molokai Ranch shall also bear the expense, if any, of making any connection to the water pipeline at the Location.

3. Kaluakoi shall have the responsibility for reading the water meter which measures the quantity of water produced at Kualapu'u and purchased by Molokai Ranch and maintaining a record of such quantity. Every two months Kaluakoi shall send a bill which will (a) represent the quantity of water produced at Kualapu'u and purchased by Molokai Ranch as measured by the meter and (b) calculate the purchase price for the water produced and purchased by Molokai Ranch during the previous two month period.

4. Molokai Ranch shall pay seventy-five cents (75¢) per thousand gallons for the water which it purchases. Payment shall be made bi-monthly, within thirty (30) days after the date of the bill for such water.

5. Either Kaluakoi or Molokai Ranch may terminate the agreement by giving the other party at least thirty days prior written notice. Upon termination, Kaluakoi shall have the right, but not the obligation, to remove the water meter which installed pursuant to paragraph 2 above.

Molokai Ranch, Ltd.  
Page 2

6. It is understood and agreed that Kaluakoi makes no representations or warranties whatsoever as to the quality or quantity of water produced at Kualapu'u and it is acknowledged by both parties that the water being sold may be mixed with, and transported through a pipeline system which contains, water which is not potable. The water being sold hereunder is to be sold "AS IS". ALL WARRANTIES EXPRESS AND IMPLIED ARE HEREBY DISCLAIMED, INCLUDING ALL WARRANTIES OF MERCHANTABILITY AND WARRANTIES OF FITNESS FOR ANY PARTICULAR PURPOSE. Molokai Ranch shall indemnify, defend and hold Kaluakoi harmless from and against all claims which may be made against Kaluakoi arising out of any and all uses of the water being sold hereunder and shall reimburse Kaluakoi for any and all expenses it may incur, including without limitation attorney's fees and court costs, in responding to any such claims.

7. It is understood that in lieu of payment of the above purchase price, Molokai Ranch shall have the option of replacing in whole or in part the water provided to it hereunder by pumping into the same pipeline, at the location or at other locations, the same amount of water which was provided by Kaluakoi. The time within which to replace such water will be the same time as for making payment of the purchase price. Such replacement water may be pumped into the same pipeline at locations other than at Kualapuu.

If this letter accurately sets forth our entire and complete agreement with respect to the purchase and sale of water at Kualapu'u, then please sign and return the enclosed copy of this letter in the space provided below.

Very truly yours,

KALUAKOI CORPORATION

By Philip E. Boyle  
Its Vice President

So agreed this 16 day of SEPTEMBER, 1985.

MOLOKAI RANCH, LTD.

By [Signature]  
Its PRESIDENT

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**DOCKET NO. 2009-0048**

**WMA-SIR-104      Re: Response to WMA-IR-108.**

Regarding MPU's actual costs of providing water treatment/delivery to WOM customers in Maunaloa, please answer the following questions.

- a.      When will an analysis of the actual cost of providing these services, in terms of both fixed and variable components, be submitted for the record in these proceedings?

**RESPONSE:**

The Company has not prepared such an analysis and is not currently preparing such an analysis. The Company believes that such an analysis can be prepared by WMA if one is desired.

- b.      When will an audited "arms length" accounting of the proposed financial arrangement between these two wholly-owned subsidiaries of MPL be submitted for the record in these proceedings?

**RESPONSE:**

The Company is unsure of what is requested by this SIR. However, the procedures used to reflect accounting are that MPU's transactions with WOM are currently recorded openly on MPU's accounting records and are available for review. As of now, the Company does not plan to have any audited accounting prepared or submitted.

- c.      How does the Company intend to apply the proposed fuel

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**WMA-SIR-104 (cont.)**

and electricity cost adjustments to the water treatment  
expense transactions with WOM?

**RESPONSE:** The Company intends to apply the same procedure used for  
all customers which would use the water usage billed  
monthly.

**SPONSOR:** Robert O'Brien

**MOLOKAI PUBLIC UTILITIES, INC.'S RESPONSES TO WEST MOLOKAI  
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**WMA-SIR-105      Re: Response to WMA-IR-119**

- a.      Please provide the missing entry for March 2009 in the column entitled "Mountain" of Attachment WMA-IR-119.

**RESPONSE:**                      See Attachment WMA-SIR-105a.

- b.      Please provide the missing entries in the column entitled "Manuwainui" of Attachment WMA-IR-119.

**RESPONSE:**                      See Attachment WMA-SIR-105a.

- c.      Please confirm that the values listed in the column entitled "Maunaloa" of Attachment WMA-IR-119 are the actual metered amounts delivered to WOM customers in Maunaloa and do not include any water deliveries through the Moana Makani bypass.

**RESPONSE:**                      The statement above is confirmed.

- d.      Please confirm that the values listed in the column entitled "Kaluakoi" of Attachment WMA-IR-119 include all metered amounts delivered to MPU customers, including those amounts delivered through the Moana Makani bypass line as further detailed in Attachment WMA-IR-402f.

**RESPONSE:**                      The statement above is confirmed.

- e.      Some of the values listed in the column entitled "Mahana Pump" of Attachment WMA-IR-119 differ from the corresponding entries in the column entitled "Mahana Pump

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**WMA-SIR-105 (cont.)**

Monthly Usage" of Attachment CA-IR-37a. Please reconcile the discrepancies and provide consistent data.

**RESPONSE:**

See Attachment WMA-SIR-105a. The data in the Raw Water Total Input to Puunana Mahana Pump column of Attachment WMA-SIR-105a has been compared to the actual reading data shown on Attachment CA-IR-37a and changes made to reflect the actual meter readings and usage.

- f. Usage data provided in Attachments WMA-IR-119 and WMA-IR-402f do not indicate any substantial decrease during April 2008 or the next several months after the closure of the golf course. Can the Company explain this apparent contradiction? In essence, WMA needs to know how much water the golf course used, on a monthly basis, over a period of 3-4 years, and when golf course irrigation ceased, and how that particular loss of demand impacted the system, e.g. pumping, treatment, etc.

**RESPONSE:**

The Company is not sure what data is being compared as a basis for the question. First, Attachment WMA-IR-402f reflects the usage for the Moana Makani meter which is not related to the golf course and therefore monthly water usage

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**WMA-SIR-105 (cont.)**

would not be directly impacted by the closure of the golf course. Second, Attachment WMA-IR-119 does not reflect usage data for the months of April 2007 to June 2007 so no comparisons can be made for those related months in 2008. Finally, With regard to the months of July to December 2007 for the Kaluakoi meter, which is where the golf course usage would be reflected, the total usage for the six months July to December 2007 was 115,504 (Attachment WMA-SIR-105a, column 8, line 6) while the related usage for the six months July to December 2008 was 72,905 (column 8, line 18), a reduction of 42,599 or approximately 35%. Likewise, the total usage for the six months of January to June 2008 (column 8, line 12) was 96,783 while the related usage for the six months ended June 2009 was 57,505 (column 8, line 24), a reduction of 39,178 or approximately 40%. Meter readings for the golf course usage are reflected on Attachment WMA-SIR-105f.

- g. Metered consumption recorded at the Kaluakoi and Moana Makani Bypass meters (as shown in Attachments WMA-IR-119 and WMA-IR-402F) decreased dramatically in October 2008, and remained substantially lower for the next

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**WMA-SIR-105 (cont.)**

five months. Does the Company know of any reason for this substantial decline in consumption other than the temporary rate increase granted by the PUC effective September 1, 2009?

**RESPONSE:**

The Company believes that a substantial portion of the decrease in usage for that period was related to the temporary rate increase approved by the Commission which was effective on September 1, 2008.

- h. Values listed in the columns entitled "Mountain", "Manuwainui", "Maunaloa" and "Kaluakoi" of Attachment WMA-IR-119 differ from the corresponding values contained in the monthly reports entitled "Molokai Properties Intercompany Water Sales", as furnished to the PUC in Docket No. 2008-0115. Please explain the reasons for the variances and provide consistent data.

**RESPONSE:**

The monthly totals reported on each of those sources will not agree because the monthly periods used for the summaries are different. The base daily data used to produce the usage information on both Attachment WMA-IR-119 and the Molokai Properties Intercompany Water Sales monthly reports ("MPIWS") is the same data. The information on

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**WMA-SIR-105 (cont.)**

Attachment WMA-IR-119 is summarized by calendar month while the data appearing on the MPIWS is for the monthly period covered by the meter readings for billing purposes. These dates are normally between the 20<sup>th</sup> and 25<sup>th</sup> of the month.

- i. In the reports entitled "Molokai Properties Intercompany Water Sales", metered values of usage for treated water are multiplied by a factor of 1.10 (110%) for billing purposes. Please provide the justification for each adjustment factor used in the calculations.

**RESPONSE:**

The 10% adder was designed to reflect the water loss associated with the water treatment process. The percent prior to 2006 was 13% and it was reduced to 10% after the completion of the updated water treatment system. The percentages used were estimated by the Company for each period they were in effect.

- j. Are the values listed in the columns entitled "Manuwainui", "Maunaloa" and "Kaluakoi" of Attachment WMA-IR-119 based upon (i) actual (unadjusted) meter readings; (ii) adjusted (110%) meter readings as shown in the monthly reports entitled "Molokai Intercompany Water Sales";

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**WMA-SIR-105 (cont.)**

(iii) some combination of the previous two alternatives; or  
(iv) entirely separate sets of meter readings? Please explain the differences/variances and provide consistent data.

**RESPONSE:**

See response to part (h) above.

- k. Please provide copies of the reports entitled "Molokai Intercompany Water Sales", or the predecessors thereof, for the period from December 2005 through September 26, 2008.

**RESPONSE:**

See Attachment WMA-SIR-105k.

- l. Please provide inventories of water stored in the Puunanu Raw (untreated) Water Reservoir, the Maunaloa Finished Water Reservoir and the Puuokoli Finished Water Tank on a monthly basis for the period from January 1, 2006 through October 26, 2009. [Measured tank and reservoir levels (surface heights above base) are satisfactory as long as the dimensions of the tanks/reservoirs are also provided in order to calculate stored water volumes.]

**RESPONSE:**

While the Company makes daily observations and calculations of the water stored in its tanks and reservoirs as shown on the samples of the daily calculations (see Attachment WMA-SIR-105l), it does not transcribe those

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**WMA-SIR-105 (cont.)**

data to weekly, monthly or annual recap schedules. Therefore the Company does not have the data requested in the form requested and it would be unduly burdensome for the Company to prepare such data or provide copies of almost 300 pages per year. The Company will make the data available at the Company's office on Molokai if WMA wishes to use the data to prepare its own summary.

**SPONSOR:** Robert O'Brien

**ATTACHMENT**  
**WMA-SIR-105a**

**Attachment WMA-SIR-105a  
Docket No. 2009-0048**

**MPU  
Water Flows At Puunana and Maunaloa Reservoir**

	[ 1 ]	[ 2 ]	[ 3 ]	[ 4 ]	[ 5 ]	[ 6 ]	[ 7 ]	[ 8 ]
			Raw Water Total Input to Puunana		Finished water Total out of Maunaloa Reservoir			
Line #	Month	Year	Mahana Pump	Mountain	Manuwainui	Maunaloa	Kaluakoi	Sub-Totals
1	July	2007	17,734	10,031	383	2,470	16,390	
2	Aug		33,405	1,178	269	2,447	24,314	
3	Sept		28,209	392	240	2,743	19,501	
4	Oct		36,615	478	769	2,390	25,758	
5	Nov		23,632	338	211	2,641	17,420	
6	Dec		19,464	249	350	2,159	12,121	115,504
7	Jan	2008	21,713	149	575	2,669	14,652	
8	Feb		27,104	94	952	2,373	16,192	
9	Mar		32,347	500	421	2,810	24,312	
10	Apr		22,075	34	364	1,635	15,252	
11	May		20,871	59	505	1,732	13,970	
12	June		18,631	25	415	2,243	12,405	96,783
13	July		21,387	40	386	1,891	13,795	
14	Aug		21,870	763	413	2,129	14,456	
15	Sept		14,173	5,742	214	1,651	14,883	
16	Oct		15,257	6,759	649	1,536	14,061	
17	Nov		10,996	3,079	327	1,401	8,469	
18	Dec		11,067	1,037	358	1,450	7,241	72,905
19	Jan	2009	8,819	757	444	1,124	5,500	
20	Feb		10,062	1,992	424	1,333	7,444	
21	Mar		13,527	4,679	183	2,254	9,710	
22	Apr		11,345	3,575	116	2,159	11,563	
23	May		14,015	3,063	683	2,249	11,428	
24	Jun		15,831	3,276	38	2,598	11,860	57,505
25	Jul		16,187	3,924	263	2,479	13,960	
26	Aug		15,938	3,543	26	2,770	11,777	
27	Sep		15,593	3,672	222	2,673	13,173	
28	Oct		17,018	3,975	223	2,560	13,688	
29	Nov							

**ATTACHMENT  
WMA-SIR-105f**

**Attachment WMA-SIR-105f  
Docket No. 2009-0048**

**MPU  
Golf Course Usage**

<u>Line #</u>	<u>Month</u>	<u>Meter # 1</u>	<u>Meter # 2</u>	<u>Meter # 3</u>	<u></u>	<u>Total</u>
<b><u>2005</u></b>						
1	Jan	756	570	397		1,723
2	Feb	1,184	1,255	387		2,826
3	Mar	1,674	1,853	621		4,148
4	Apr	2,192	1,736	1,632		5,560
5	May	3,512	1,451	2,376		7,339
6	Jun	3,023	1,217	1,944		6,184
7	Jul	3,069	1,322	2,104		6,495
8	Aug	3,706	1,971	3,160		8,837
9	Sep	4,000	1,565	2,357		7,922
10	Oct	4,715	1,386	2,079		8,180
11	Nov	4,797	1,471	2,544		8,812
12	Dec	2,590	746	1,206		4,542
13	Total	<u>35,218</u>	<u>16,543</u>	<u>20,807</u>	<u>-</u>	<u>72,568</u>
<b><u>2006</u></b>						
14	Jan	4,389	1,356	2,523		8,268
15	Feb	2,346	768	1,336		4,450
16	Mar	1,619	680	1,053		3,352
17	Apr	1,750	538	911		3,199
18	May	4,125	1,104	2,109		7,338
19	Jun	4,175	1,215	2,151		7,541
20	Jul	4,389	1,242	2,197		7,828
21	Aug	4,618	1,353	2,409		8,380
22	Sep	4,749	1,210	2,264		8,223
23	Oct	3,711	1,081	1,931		6,723
24	Nov	3,166	977	1,842		5,985
25	Dec	3,423	1,220	1,791		6,434
26	Total	<u>42,460</u>	<u>12,744</u>	<u>22,517</u>	<u>-</u>	<u>77,721</u>
<b><u>2007</u></b>						
27	Jan	3,175	1,403	2,134		6,712
28	Feb	3,432	1,459	2,124		7,015
29	Mar	3,420	1,285	2,055		6,760
30	Apr	4,569	1,680	2,208		8,457
31	May	3,979	1,607	2,077		7,663
32	Jun	2,774	933	1,404		5,111
33	Jul	1,327	342	645		2,314
34	Aug	4,122	1,630	2,032		7,784
35	Sep	2,870	1,206	1,590		5,666
36	Oct	3,694	1,323	1,801		6,818
37	Nov	2,004	1,094	1,628		4,726
38	Dec	1,244	549	1,019		2,812
39	Total	<u>36,610</u>	<u>14,511</u>	<u>20,717</u>	<u>-</u>	<u>71,838</u>

**Attachment WMA-SIR-105f  
Docket No. 2009-0048**

**MPU  
Golf Course Usage**

<u>Line #</u>	<u>Month</u>	<u>Meter # 1</u>	<u>Meter # 2</u>	<u>Meter # 3</u>	<u></u>	<u>Total</u>
<b><u>2008</u></b>						
40	Jan	1,402	1,055	1,449		3,906
41	Feb	643	1,425	1,801		3,869
42	Mar	2,429	1,482	1,628		5,539
43	Apr	772	713	1,019		2,504
44	May	37	9	1,449		1,495
45	Jun	6	-	1,613		1,619
46	Jul	24	-	2,000		2,024
47	Aug	28	1	1,639		1,668
48	Sep	14	-	80		94
49	Oct	35	-	-		35
50	Nov	5	-	-		5
51	Dec	5	-	-		5
52	Total	<u>5,400</u>	<u>4,685</u>	<u>12,678</u>	<u>-</u>	<u>22,763</u>
<b><u>2009</u></b>						
53	Jan	14	-	-		14
54	Feb	16	-	-		16
55	Mar	16	-	-		16
56	Apr	5	-	-		5
57	May	5	-	-		5
58	Jun	4	-	-		4
59	Jul	-	-	-		-
60	Aug	1	-	-		1
61	Sep	-	-	-		-
62	Oct	3	-	-		3
63	Nov	-	-	-		-
64	Dec	-	-	-		-
	Total	<u>64</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>64</u>

**ATTACHMENT**  
**WMA-SIR-105k**

## Monthly Water Values

Meters	Readings		Use	% Adjust. Factor	Sales in 1,000's	Rate per 1,000	Value
	09/25/05	10/25/05					
Mountain Water to Puu Nana Raw Water Res.			3,425,000	113%	3,870	\$1.00	\$3,870.00
						615 to 610	
MPU Kaluakoi Project Meter Plus Moana Makani	199,300,400	219,898,400	21,217,600	113%	23,976	\$1.00	\$23,976.00
	42,570,200	43,189,800				610 to MPU	
M'loa 8" Project Meter Less Moana Makani	742,367,000	745,451,000	2,464,400	113%	2,785	\$2.00	\$5,570.00
	42,570,200	43,189,800				610 to Waiola	
Manawainui Resv. Industrial Park 2" Clearwell Effluent			0	113%	0	\$2.00	\$0.00
						610 to Waiola	
Book 9 Industrial Ag	From Cubic Total metered		1,024,000	113%	1,157	\$1.00	\$1,157.00

# Molokai Properties Intercompany Water Sales

Monthly Water Values

Meters	Readings			% Adjust.		Sales in 1,000's	Rate per 1,000	Value
	10/25/05	11/23/05		Use	Factor			
Mountain Water to Puu Nana Raw Water Res.					100%	0	\$1.00	\$0.00
						615-340-00	610-440-??	615 to 610
MPU Kaluakoi Project Me Plus Moana Makani	219,898,400	241,735,400	22,627,500		113%	25,569	\$1.00	\$25,569.00
	43,189,800	43,980,300				610-340-00	100-440-05	610 to MPU
M'loa 8" Project Meter Less Moana Makani	745,451,000	748,149,000	1,907,500		113%	2,155	\$2.00	\$4,311.00
	43,189,800	43,980,300				610-340-00	100-440-22	610 to Waiola
Manawainui Resv. Industrial Park 2" Clearwell Effluent	1,323,100	1,651,500	328,400		113%	371	\$2.00	\$742.00
						610-340-00	100-440-03	610 to Waiola
Book 9 Industrial Ag	From Cubic							
	Total metered	1,161,000			113%	1,312	\$1.00	\$1,312.00
						615-340-00	100-440-04	615 to Waiola

# Molokai Properties Intercompany Water Sales

Monthly Water Values

Meters	Readings		Use	% Adjust.		Sales in 1,000's	Rate per 1,000	Value
	11/23/05	12/23/05		Use	Factor			
Mountain Water to Puu Nana Raw Water Res.					100%	0	\$1.00	\$0.00
						615-340-00	610-440-??	615 to 610
MPU Kaluakoi Project Me Plus Moana Makani	241,735,400	254,947,000	13,962,600		113%	15,778	\$1.00	\$15,778.00
	43,980,300	44,731,300				610-340-00	100-440-05	610 to MPU
M'loa 8" Project Meter Less Moana Makani	748,149,000	750,551,000	1,651,000		113%	1,866	\$2.00	\$3,731.00
	43,980,300	44,731,300				610-340-00	100-440-22	610 to Waiola
Manawainui Resv. Industrial Park 2" Clearwell Effluent	1,651,500	1,651,500	0		113%	0	\$2.00	\$0.00
						610-340-00	100-440-03	610 to Waiola
Book 9 Industrial Ag	From Cubic							
	Total metered		37,000		113%	42	\$1.00	\$42.00
						615-340-00	100-440-04	615 to Waiola

Molokai Properties Intercompany Water Sales

Monthly Water Values							
Meters	Readings		Use	% Adjust. Factor	Sales in 1,000's	Rate per 1,000	Value
	12/23/05	01/23/06					
Mountain Water to Puu Nana Raw Water Res.				100%	0	\$1.00	\$0.00
					615-340-00	610-440-??	615 to 610
MPU Kaluakoi Project Meter Plus Moana Makani	254,947,000	276,288,400	22,487,600	110%	24,736	\$1.00	\$24,736.00
	44704700	45850900			610-340-00	100-440-05	610 to MPU
M'loa 8" Mtr Water Sale	750,551,000	753,691,000	1,993,800	110%	2,193	\$2.00	\$4,386.00
	44,704,700	45,850,900			610-340-00	100-440-22	610 to Waiola
Manawainui Resv. Industrial Park 2" Clearwell Effluent	1,651,500	1,651,500	0	110%	0	\$2.00	\$0.00
					610-340-00	100-440-03	610 to Waiola
Book 9 Industrial Ag	From Cubic						
	Total metered	1,145,000		110%	1,260	\$1.00	\$1,260.00
					615-340-00	100-440-04	615 to Waiola

Molokai Properties Intercompany Water Sales

Monthly Water Values							
Meters	Readings		Use	% Adjust. Factor	Sales in 1,000's	Rate per 1,000	Value
	01/23/06	02/23/06					
Mountain Water to Puu Nana Raw Water Res.				100%	0	\$1.00	\$0.00
					615-340-00	610-440-??	615 to 610
MPU Kaluakoi Project Meter Plus Moana Makani	276,288,400	293,037,400	17,620,400	110%	19,382	\$1.00	\$19,382.00
	45850900	46722300			610-340-00	100-440-05	610 to MPU
M'loa 8" Mtr Water Sale	753,691,000	756,633,000	2,070,600	110%	2,278	\$2.00	\$4,555.00
	45,850,900	46,722,300			610-340-00	100-440-22	610 to Waiola
Manawainui Resv. Industrial Park 2" Clearwell Effluent							
	1,651,500	1,651,500	0	110%	0	\$2.00	\$0.00
					610-340-00	100-440-03	610 to Waiola
Book 9 Industrial Ag	From Cubic						
	Total metered		291,000	110%	320	\$1.00	\$320.00
					615-340-00	100-440-04	615 to Waiola

# Molokai Properties Intercompany Water Sales

Monthly Water Values

Meters		Readings		Use	% Adjust. Factor	Sales in 1,000's	Rate per 1,000	Value
		02/23/06	03/23/06					
Mountain Water to Puu Nana Raw Water Res.	New Mtr	0	2,214,600	8,077,300	100%	8,077	\$1.00	\$8,077.00
	Old Mtr	90065800	95928500					
						615-340-00	610-440-??	615 to 610
MPU Kaluakoi Project Meter Plus Moana Makani		293,037,400	296,022,800	3,663,900	110%	4,030	\$1.00	\$4,030.00
		46722300	47400800					
						610-340-00	100-440-05	610 to MPU
M'loa 8" Mtr Water Sale		756,633,000	759,069,000	1,757,500	110%	1,933	\$2.00	\$3,867.00
		46,722,300	47,400,800					
						610-340-00	100-440-22	610 to Waiola
Manawainui Resv. Industrial Park 2" Clearwell Effluent		1,651,500	1,651,500	0	110%	0	\$2.00	\$0.00
						610-340-00	100-440-03	610 to Waiola
Book 9 Industrial Ag	From Cubic			1,187,000	110%	1,306	\$1.00	\$1,306.00
	Total metered							
						615-340-00	100-440-04	615 to Waiola

Molokai Properties Intercompany Water Sales

Monthly Water Values									
Meters		Readings		Use	% Adjust. Factor	Sales in 1,000's	Rate per 1,000	Value	
		03/23/06	04/24/06						
Mountain Water to Puu Nana Raw Water Res.		New Mtr	2,214,600	11,199,200	8,984,600	100%	8,985	\$1.00	\$8,985.00
							615-340-00	610-440-??	615 to 610
MPU Kaluakoi Project Meter Plus Moana Makani			296,022,800	314,013,400	18,732,600	110%	20,606	\$1.00	\$20,606.00
			47400800	48142800			610-340-00	100-440-05	610 to MPU
M'loa 8" Mtr Water Sale			759,069,000	761,578,000	1,767,000	110%	1,944	\$2.00	\$3,887.00
			47,400,800	48,142,800			610-340-00	100-440-22	610 to Waiola
Manawainui Resv. Industrial Park 2" Clearwell Effluent					3,530,100	110%	3,883	\$2.00	\$7,766.00
							610-340-00	100-440-03	610 to Waiola
Book 9 Industrial Ag		From Cubic Total metered			82,000	110%	90	\$1.00	\$90.00
							615-340-00	100-440-04	615 to Waiola

# Molokai Properties Intercompany Water Sales

Monthly Water Values

Meters		Readings		Use	% Adjust. Factor	Sales in 1,000's	Rate per 1,000	Value
		04/24/06	05/24/06					
Mountain Water to Puu Nana Raw Water Res.	New Mtr	11,199,200	22,545,000	11,345,800	100%	11,346	\$1.00	\$11,346.00
						615-340-00	610-440-??	615 to 610
MPU Kaluakoi Project Meter Plus Moana Makani		314,013,400	334,148,400	21,025,500	110%	23,128	\$1.00	\$23,128.00
		48142800	49033300			610-340-00	100-440-05	610 to MPU
M'loa 8" Mtr Water Sale		761,578,000	764,586,000	2,117,500	110%	2,329	\$2.00	\$4,659.00
		48,142,800	49,033,300			610-340-00	100-440-22	610 to Waiola
Manawainui Resv. Industrial Park 2" Clearwell Effluent		5,181,600	5,485,400	303,800	110%	334	\$2.00	\$668.00
						610-340-00	100-440-03	610 to Waiola
Book 9 Industrial Ag	From Cubic Total metered			1,206,000	110%	1,327	\$1.00	\$1,327.00
						615-340-00	100-440-04	615 to Waiola

Molokai Properties Intercompany Water Sales

Monthly Water Values									
Meters		Readings		Use	% Adjust. Factor	Sales in 1,000's	Rate per 1,000	Jun-06	May-06
		05/24/06	06/23/06					Value	Value
Mountain Water to Puu Nana Raw Water Res.		New Mtr	22,545,000	27,629,100	5,084,100	100%	5,084	\$1.00	\$5,084.00
						615-340-00	610-440-??	615 to 610	\$11,346.00
MPU Kaluakoi Project Meter Plus Moana Makani			334,148,400	354,922,400	21,793,100	110%	23,972	\$1.00	\$23,972.00
			49,033,300	50,052,400		610-340-00	100-440-05	610 to MPU	\$23,128.00
M'loa 8" Mtr Water Sale			764,586,000	767,875,000	2,269,900	110%	2,497	\$2.00	\$4,994.00
			49,033,300	50,052,400		610-340-00	100-440-22	610 to Waiola	\$4,659.00
Manawainui Resv. Industrial Park 2" Clearwell Effluent			5,485,400	6,431,200	945,800	110%	1,040	\$2.00	\$2,081.00
						610-340-00	100-440-03	610 to Waiola	\$668.00
Book 9 Industrial Ag		From Cubic Total metered		194,000	110%	213	\$1.00	\$213.00	\$1,327.00
						615-340-00	100-440-04	615 to Waiola	615 to Waiola

# Molokai Properties Intercompany Water Sales

Monthly Water Values

Meters		Readings		Use	% Adjust. Factor	Sales in 1,000's	Rate per 1,000	Value
		06/23/06	07/21/06					
Mountain Water to Puu Nana Raw Water Res.	New Mtr	27,629,100	30,161,200	2,532,100	100%	2,532	\$1.00	\$2,532.00
						615-340-00	WAI-440-06	615 to Waiola
MPU Kaluakoi Project Meter Plus Moana Makani		354,922,400 50,052,400	374,729,400 51,061,900	20,816,500	110%	22,898	\$1.00	\$22,898.00
						610-340-00	100-440-05	610 to MPU
M'loa Puunana 8" Mtr Water Sale		767,875,000 50,052,400	771,031,000 51,061,900	2,146,500	110%	2,361	\$1.00	\$2,361.00
						610-340-00	100-440-03	610 to Waiola
Manawainui Resv. Industrial Park 2" Clearwell Effluent		6,431,200	7,212,400	781,200	110%	859	\$1.00	\$859.00
						610-340-00	100-440-22	610 to Waiola
Book 9 Industrial Ag	From Cubic Total metered			986,000	110%	1,085	\$1.00	\$1,085.00
						615-340-00	100-440-04	615 to Waiola

# Molokai Properties Intercompany Water Sales

Monthly Water Values

Meters		Readings		Use	% Adjust. Factor	Sales in 1,000's	Rate per 1,000	Value
		07/21/06	08/24/06					
Mountain Water to Puu Nana Raw Water Res.	New Mtr	30,161,200	33,742,200	3,581,000	100%	3,581	\$1.00	\$3,581.00
						615-340-00	WAI-440-06	615 to Waiola
MPU Kaluakoi Project Meter Plus Moana Makani		374,729,400	400,419,400	26,731,700	110%	29,405	\$1.00	\$29,405.00
		51,061,900	52,103,600			610-340-00	100-440-05	610 to MPU
M'loa Puunana 8" Mtr Water Sale		771,031,000	775,217,000	3,144,300	110%	3,459	\$1.00	\$3,459.00
		51,061,900	52,103,600			610-340-00	100-440-03	610 to Waiola
Manawainui Resv. Industrial Park 2" Clearwell Effluent		7,212,400	7,730,500	518,100	110%	570	\$1.00	\$570.00
						610-340-00	100-440-22	610 to Waiola
Book 9 Industrial Ag	From Cubic Total metered			1,387,000	110%	1,526	\$1.00	\$1,526.00
						615-340-00	100-440-04	615 to Waiola

Molokai Properties Intercompany Water Sales

Monthly Water Values									
Meters		Readings		Use	% Adjust. Factor	Sales in 1,000's	Rate per 1,000	Value	
		08/24/06	09/25/06						
Mountain Water to Puu Nana Raw Water Res.		New Mtr	33,742,200	37,206,500	3,464,300	100%	3,464	\$1.00	\$3,464.00
						615-340-00	WAI-440-06	615 to Waiola	
MPU Kaluakoi Project Meter Plus Moana Makani			400,419,400	424,581,400	25,515,500	110%	28,067	\$1.00	\$28,067.00
			52,103,600	53,457,100			610-340-00	100-440-05	610 to MPU
M'loa Puunana 8" Mtr Water Sale			775,217,000	779,189,000	2,618,500	110%	2,880	\$1.00	\$2,880.00
			52,103,600	53,457,100			610-340-00	100-440-03	610 to Waiola
Manawainui Resv. Industrial Park 2" Clearwell Effluent					406,100	110%	447	\$1.00	\$447.00
			7,730,500	8,136,600			610-340-00	100-440-22	610 to Waiola
Book 9 Industrial Ag		From Cubic Total metered			1,164,000	110%	1,280	\$1.00	\$1,280.00
							615-340-00	100-440-04	615 to Waiola

# Molokai Properties Intercompany Water Sales

Monthly Water Values

Meters		Readings		Use	% Adjust. Factor	Sales in 1,000's	Rate per 1,000	Value
		09/25/06	10/25/06					
Mountain Water to Puu Nana Raw Water Res.	New Mtr	37,206,500	39,712,500	2,506,000	100%	2,506	\$1.00	\$2,506.00
						615-340-00	WAI-440-06	615 to Waiola
MPU Kaluakoi Project Meter Plus Moana Makani		424,581,400	440,009,400	16,156,000	110%	17,772	\$1.00	\$17,772.00
		53,457,100	54,185,100			610-340-00	100-440-05	610 to MPU
M'loa Puunana 8" Mtr Water Sale		779,189,000	782,379,000	2,462,000	110%	2,708	\$1.00	\$2,708.00
		53,457,100	54,185,100			610-340-00	100-440-03	610 to Waiola
Manawainui Resv. Industrial Park 2" Clearwell Effluent		8,136,600	8,244,600	108,000	110%	119	\$1.00	\$119.00
						610-340-00	100-440-22	610 to Waiola
Book 9 Industrial Ag	From Cubic							
	Total metered			1,164,000	110%	1,280	\$1.00	\$1,280.00
						615-340-00	100-440-04	615 to Waiola

# Molokai Properties Intercompany Water Sales

Monthly Water Values

Meters		Readings		Use	% Adjust. Factor	Sales in 1,000's	Rate per 1,000	Value
		10/25/06	11/24/06					
Mountain Water to Puu Nana Raw Water Res.	New Mtr	39,712,500	43,421,800	3,709,300	100%	3,709	\$1.00	\$3,709.00
						615-340-00	WAI-440-06	615 to Waiola
MPU Kaluakoi Project Meter Plus Moana Makani		440,009,400	457,029,400	17,924,100	110%	19,717	\$1.00	\$19,717.00
		54,185,100	55,089,200			610-340-00	100-440-05	610 to MPU
M'loa Puunana 8" Mtr Water Sale		782,379,000	785,116,000	1,832,900	110%	2,016	\$1.00	\$2,016.00
		54,185,100	55,089,200			610-340-00	100-440-03	610 to Waiola
Manawainui Resv. Industrial Park 2" Clearwell Effluent		8,244,600	8,355,100	110,500	110%	122	\$1.00	\$122.00
						610-340-00	100-440-22	610 to Waiola
Book 9 Industrial Ag	From Cubic Total metered			1,053,000	110%	1,158	\$1.00	\$1,158.00
						615-340-00	100-440-04	615 to Waiola

**Molokai Properties Intercompany Water Sales**

Monthly Water Values

Meters		Readings		Use	% Adjust. Factor	Sales in 1,000's	Rate per 1,000	Value
		11/24/06	12/22/06					
Mountain Water to Puu Nana Raw Water Res.	New Mtr	43,421,800	46,238,700	2,816,900	100%	2,817	\$1.00	\$2,817.00
						615-340-00	WAI-440-06	615 to Waiola
MPU Kaluakoi Project Meter Plus Moana Makani		457,029,400	470,976,400	14,986,300	110%	16,485	\$1.00	\$16,485.00
		55,089,200	56,128,500			610-340-00	100-440-05	610 to MPU
M'loa Puunana 8" Mtr Water Sale		785,116,000	788,128,000	1,972,700	110%	2,170	\$1.00	\$2,170.00
		55,089,200	56,128,500			610-340-00	100-440-03	610 to Waiola
Manawainui Resv. Industrial Park 2" Clearwell Effluent		8,355,100	8,564,200	209,100	110%	230	\$1.00	\$230.00
						610-340-00	100-440-22	610 to Waiola
Book 9 Industrial Ag	From Cubic Total metered			345,000	110%	380	\$1.00	\$380.00
						615-340-00	100-440-04	615 to Waiola

# Molokai Properties Intercompany Water Sales

Monthly Water Values

Meters		Readings		Use	% Adjust. Factor	Sales in 1,000's	Rate per 1,000	Value
		12/22/06	01/22/07					
Mountain Water to Puu Nana Raw Water Res.	New Mtr	46,238,700	49,134,300	2,895,600	100%	2,896	\$1.00	\$2,896.00
						615-340-00	WAI-440-06	615 to Waiola
MPU Kaluakoi Project Meter Plus Moana Makani		470,976,400	485,529,400	15,673,100	110%	17,240	\$1.00	\$17,240.00
		56,128,500	57,248,600			610-340-00	100-440-05	610 to MPU
M'loa Puunana 8" Mtr Water Sale		788,128,000	791,185,000	1,936,900	110%	2,131	\$1.00	\$2,131.00
		56,128,500	57,248,600			610-340-00	100-440-03	610 to Waiola
Manawainui Resv. Industrial Park 2" Clearwell Effluent		8,564,200	8,671,300	107,100	110%	118	\$1.00	\$118.00
						610-340-00	100-440-22	610 to Waiola
Book 9 Industrial Ag	From Cubic Total metered			1,223,000	110%	1,345	\$1.00	\$1,345.00
						615-340-00	100-440-04	615 to Waiola

# Molokai Properties Intercompany Water Sales

Monthly Water Values

Meters		Readings		Use	% Adjust. Factor	Sales in 1,000's	Rate per 1,000	Value
		01/22/07	02/22/07					
Mountain Water to Puu Nana Raw Water Res.	New Mtr	49,134,300	51,760,900	2,626,600	100%	2,627	\$1.00	\$2,627.00
						615-340-00	WAI-440-06	615 to Waiola
MPU Kaluakoi Project Meter Plus Moana Makani		485,529,400	506,015,400	21,680,000	110%	23,848	\$1.00	\$23,848.00
		57,248,600	58,442,600			610-340-00	100-440-05	610 to MPU
M'loa Puunana 8" Mtr Water Sale		791,185,000	795,082,000	2,703,000	110%	2,973	\$1.00	\$2,973.00
		57,248,600	58,442,600			610-340-00	100-440-03	610 to Waiola
Manawainui Resv. Industrial Park 2" Clearwell Effluent		8,671,300	8,921,600	250,300	110%	275	\$1.00	\$275.00
						610-340-00	100-440-22	610 to Waiola
Book 9 Industrial Ag	From Cubic Total metered			604,000	110%	664	\$1.00	\$664.00
						615-340-00	100-440-04	615 to Waiola

# Molokai Properties Intercompany Water Sales

Monthly Water Values

Meters		Readings		Use	% Adjust. Factor	Sales in 1,000's	Rate per 1,000	Value
		02/22/07	03/22/07					
Mountain Water to Puu Nana Raw Water Res.	New Mtr	51,760,900	53,485,800	1,724,900	100%	1,725	\$1.00	\$1,725.00
						615-340-00	WAI-440-06	615 to Waiola
MPU Kaluakoi Project Meter Plus Moana Makani		506,015,400	521,891,400	16,855,900	110%	18,541	\$1.00	\$18,541.00
		58,442,600	59,422,500			610-340-00	100-440-05	610 to MPU
M'loa Puunana 8" Mtr Water Sale		795,082,000	798,314,000	2,252,100	110%	2,477	\$1.00	\$2,477.00
		58,442,600	59,422,500			610-340-00	100-440-03	610 to Waiola
Manawainui Resv. Industrial Park 2" Clearwell Effluent		8,921,600	9,242,100	320,500	110%	353	\$1.00	\$353.00
						610-340-00	100-440-22	610 to Waiola
Book 9 Industrial Ag	From Cubic Total metered			48,000	110%	53	\$1.00	\$53.00
						615-340-00	100-440-04	615 to Waiola

**Molokai Properties Intercompany Water Sales**

Monthly Water Values

Meters		Readings		Use	% Adjust. Factor	Sales in 1,000's	Rate per 1,000	Value
		03/22/07	04/23/07					
Mountain Water to Puu Nana Raw Water Res.	New Mtr	53,485,800	55,070,400	1,584,600	100%	1,585	\$1.00	\$1,585.00
						615-340-00	WAI-440-06	615 to Waiola
MPU Kaluakoi Project Meter Plus Moana Makani		521,891,400	542,701,400	22,091,900	110%	24,301	\$1.00	\$24,301.00
		59,422,500	60,704,400			610-340-00	100-440-05	610 to MPU
M'loa Puunana 8" Mtr Water Sale (Mloa Proj Mtr)		798,314,000	803,367,000	3,771,100	110%	4,148	\$1.00	\$4,148.00
		59,422,500	60,704,400			610-340-00	100-440-03	610 to Waiola
Manawainui Resv. Industrial Park 2" Clearwell Effluent		9,242,100	9,316,900	74,800	110%	82	\$1.00	\$82.00
						610-340-00	100-440-22	610 to Waiola
Book 9 Industrial Ag	From Cubic Total metered			473,000	110%	520	\$1.00	\$520.00
						615-340-00	100-440-04	615 to Waiola

Molokai Properties Intercompany Water Sales

Monthly Water Values								
Meters		Readings		Use	% Adjust. Factor	Sales in 1,000's	Rate per 1,000	Value
		04/23/07	05/23/07					
Mountain Water to Puu Nana Raw Water Res.	New Mtr	55,070,400	56,231,000	1,160,600	100%	1,161	\$1.00	\$1,161.00
						615-340-00	WAI-440-06	615 to Waiola
MPU Kaluakoi Project Meter Plus Moana Makani		542,701,400	563,663,400	22,445,500	110%	24,690	\$1.00	\$24,690.00
		60,704,400	62,187,900			610-340-00	100-440-05	610 to MPU
M'loa Puunana 8" Mtr Water Sale (Mloa Proj Mtr)		803,367,000	808,741,000	3,890,500	110%	4,280	\$1.00	\$4,280.00
		60,704,400	62,187,900			610-340-00	100-440-03	610 to Waiola
Manawainui Resv. Industrial Park 2" Clearwell Effluent		9,316,900	9,413,600	96,700	110%	106	\$1.00	\$106.00
						610-340-00	100-440-22	610 to Waiola
Book 9 Industrial Ag	From Cubic Total metered			324,000	110%	356	\$1.00	\$356.00
						615-340-00	100-440-04	615 to Waiola

## Molokai Properties Intercompany Water Sales

Monthly Water Values									
Meters		Readings		Use	% Adjust. Factor	Sales in 1,000's	Rate per 1,000	6/30/2007	5/31/2007
		05/23/07	06/26/07					Value	Value
Mountain Water to Puu Nana Raw Water Res.	New Mtr	56,231,000	61,367,000	5,136,000	100%	5,136	\$1.00	\$5,136.00	\$1,161.00
						615-340-00	WAI-440-06	615 to Waiola	615 to Waiola
MPU Kaluakoi Project Meter Plus Moana Makani		563,663,400	584,167,400	22,141,300	110%	24,355	\$1.00	\$24,355.00	\$24,690.00
		62,187,900	63,825,200			610-340-00	100-440-05	610 to MPU	610 to MPU
M'loa Puunana 8" Mtr Water Sale (M'loa Proj Mtr)		808,741,000	813,852,000	3,473,700	110%	3,821	\$1.00	\$3,821.00	\$4,280.00
		62,187,900	63,825,200			610-340-00	100-440-03	610 to Waiola	610 to Waiola
Manawainui Resv. Industrial Park 2" Clearwell Effluent		9,413,600	9,757,700	344,100	110%	379	\$1.00	\$379.00	\$106.00
						610-340-00	100-440-22	610 to Waiola	610 to Waiola
Book 9 Industrial Ag	From Cubic Total metered			541,000	110%	595	\$1.00	\$595.00	\$356.00
						615-340-00	100-440-04	615 to Waiola	615 to Waiola

# Molokai Properties Intercompany Water Sales

Monthly Water Values

Meters		Readings		Use	% Adjust. Factor	Sales in 1,000's	Rate per 1,000	Value
		06/26/07	07/25/07					
Mountain Water to Puu Nana Raw Water Res.	New Mtr	61,367,000	71,032,800	9,665,800	100%	9,666	\$1.00	\$9,666.00
						615-340-00	WAI-440-06	615 to Waiola
MPU Kaluakoi Project Meter Plus Moana Makani		584,167,400	597,329,400	14,085,000	110%	15,494	\$1.00	\$15,494.00
		63,825,200	64,748,200			610-340-00	100-440-05	610 to MPU
M'loa Puunana 8" Mtr Water Sale (M'loa Proj Mtr)		813,852,000	817,063,000	2,288,000	110%	2,517	\$1.00	\$2,517.00
		63,825,200	64,748,200			610-340-00	100-440-03	610 to Waiola
Manawainui Resv. Industrial Park 2" Clearwell Effluent		9,757,700	9,944,200	186,500	110%	205	\$1.00	\$205.00
						610-340-00	100-440-22	610 to Waiola
Book 9 Industrial Ag	From Cubic Total metered			573,000	110%	630	\$1.00	\$630.00
						615-340-00	100-440-04	615 to Waiola

**Molokai Properties Intercompany Water Sales**

Monthly Water Values

Meters		Readings		Use	% Adjust. Factor	Sales in 1,000's	Rate per 1,000	Value
		07/25/07	08/24/07					
Mountain Water to Puu Nana Raw Water Res.	New Mtr	71,032,800	72,211,100	1,178,300	100%	1,178	\$1.00	\$1,178.00
						615-340-00	WAI-440-06	615 to Waiola
MPU Kaluakoi Project Meter Plus Moana Makani		597,329,400	620,625,400	24,371,600	110%	26,809	\$1.00	\$26,809.00
		64,748,200	65,823,800			610-340-00	100-440-05	610 to MPU
M'loa Puunana 8" Mtr Water Sale (Mloa Proj Mtr)		817,063,000	820,656,000	2,517,400	110%	2,769	\$1.00	\$2,769.00
		64,748,200	65,823,800			610-340-00	100-440-03	610 to Waiola
Manawainui Resv. Industrial Park 2" Clearwell Effluent		9,944,200	10,368,200	424,000	110%	466	\$1.00	\$466.00
						610-340-00	100-440-22	610 to Waiola
Book 9 Industrial Ag	From Cubic Total metered			1,005,000	110%	1,106	\$1.00	\$1,106.00
						615-340-00	100-440-04	615 to Waiola

# Molokai Properties Intercompany Water Sales

Monthly Water Values

Meters		Readings		Use	% Adjust. Factor	Sales in 1,000's	Rate per 1,000	Value
		08/24/07	09/25/07					
Mountain Water to Puu Nana Raw Water Res.	New Mtr	72,211,100	72,603,500	392,400	100%	392	\$1.00	\$392.00
						615-340-00	WAI-440-06	615 to Waiola
MPU Kaluakoi Project Meter Plus Moana Makani		620,625,400	641,401,400	22,125,400	110%	24,338	\$1.00	\$24,338.00
		65,823,800	67,173,200			610-340-00	100-440-05	610 to MPU
M'loa Puunana 8" Mtr Water Sale (Mloa Proj Mtr)		820,656,000	824,799,000	2,793,600	110%	3,073	\$1.00	\$3,073.00
		65,823,800	67,173,200			610-340-00	100-440-03	610 to Waiola
Manawainui Resv. Industrial Park 2" Clearwell Effluent		10,368,200	10,628,900	260,700	110%	287	\$1.00	\$287.00
						610-340-00	100-440-22	610 to Waiola
Book 9 Industrial Ag	From Cubic Total metered			399,000	110%	439	\$1.00	\$439.00
						615-340-00	100-440-04	615 to Waiola

**Molokai Properties Intercompany Water Sales**

Monthly Water Values

Meters		Readings		Use	% Adjust. Factor	Sales in 1,000's	Rate per 1,000	Value
		09/25/07	10/25/07					
Mountain Water to Puu Nana Raw Water Res.	New Mtr	72,603,500	73,089,000	485,500	100%	486	\$1.00	\$486.00
						615-340-00	WAI-440-06	615 to Waiola
MPU Kaluakoi Project Meter Plus Moana Makani		641,401,400	663,669,400	23,562,200	110%	25,918	\$1.00	\$25,918.00
		67,173,200	68,467,400			610-340-00	100-440-05	610 to MPU
M'loa Puunana 8" Mtr Water Sale (Mloa Proj Mtr)		824,799,000	828,434,000	2,340,800	110%	2,575	\$1.00	\$2,575.00
		67,173,200	68,467,400			610-340-00	100-440-03	610 to Waiola
Manawainui Resv. Industrial Park 2" Clearwell Effluent		10,628,900	11,286,100	657,200	110%	723	\$1.00	\$723.00
						610-340-00	100-440-22	610 to Waiola
Book 9 Industrial Ag	From Cubic Total metered			536,000	110%	590	\$1.00	\$590.00
						615-340-00	100-440-04	615 to Waiola

**Molokai Properties Intercompany Water Sales**

Monthly Water Values

Meters		Readings		Use	% Adjust. Factor	Sales in 1,000's	Rate per 1,000	Value
		10/25/07	11/26/07					
Mountain Water to Puu Nana Raw Water Res.	New Mtr	73,089,000	73,494,900	405,900	100%	406	\$1.00	\$406.00
						615-340-00	WAI-440-06	615 to Waiola
MPU Kaluakoi Project Meter Plus Moana Makani		663,669,400 68,467,400	680,994,400 69,817,900	18,675,500	110%	20,543	\$1.00	\$20,543.00
						610-340-00	100-440-05	610 to MPU
M'loa Puunana 8" Mtr Water Sale (Mloa Proj Mtr)		828,434,000 68,467,400	832,562,000 69,817,900	2,777,500	110%	3,055	\$1.00	\$3,055.00
						610-340-00	100-440-03	610 to Waiola
Manawainui Resv. Industrial Park 2" Clearwell Effluent		11,286,100	11,635,300	349,200	110%	384	\$1.00	\$384.00
						610-340-00	100-440-22	610 to Waiola
Book 9 Industrial Ag	From Cubic Total metered			122,000	110%	134	\$1.00	\$134.00
						615-340-00	100-440-04	615 to Waiola

# Molokai Properties Intercompany Water Sales

Monthly Water Values

Meters		Readings		Use	% Adjust. Factor	Sales in 1,000's	Rate per 1,000	Value
		11/26/07	12/26/07					
Mountain Water to Puu Nana Raw Water Res.	New Mtr	73,494,900	73,769,700	274,800	100%	275	\$1.00	\$275.00
						615-340-00	WAI-440-06	615 to Waiola
MPU Kaluakoi Project Meter Plus Moana Makani		680,994,400 69,817,900	690,816,400 71,139,000	11,143,100	110%	12,257	\$1.00	\$12,257.00
						610-340-00	100-440-05	610 to MPU
M'loa Puunana 8" Mtr Water Sale (Mloa Proj Mtr)		832,562,000 69,817,900	835,887,000 71,139,000	2,003,900	110%	2,204	\$1.00	\$2,204.00
						610-340-00	100-440-03	610 to Waiola
Manawainui Resv. Industrial Park 2" Clearwell Effluent		11,635,300	11,983,800	348,500	110%	383	\$1.00	\$383.00
						610-340-00	100-440-22	610 to Waiola
Book 9 Industrial Ag	From Cubic Total metered			236,000	110%	260	\$1.00	\$260.00
						615-340-00	100-440-04	615 to Waiola

# Molokai Properties Intercompany Water Sales

Monthly Water Values

Meters		Readings		Use	% Adjust. Factor	Sales in 1,000's	Rate per 1,000	Value
		12/26/07	01/24/08					
Mountain Water to Puu Nana Raw Water Res.	New Mtr	73,769,700	73,933,200	163,500	100%	164	\$1.00	\$164.00
						615-340-00	WAI-440-06	615 to Waiola
MPU Kaluakoi Project Meter Plus Moana Makani		690,816,400	702,826,400	13,466,800	110%	14,812	\$1.00	\$14,812.00
		71,139,000	72,594,800			610-340-00	100-440-05	610 to MPU
M'loa Puunana 8" Mtr Water Sale (Mloa Proj Mtr)		835,887,000	839,846,000	2,503,200	110%	2,754	\$1.00	\$2,754.00
		71,139,000	72,594,800			610-340-00	100-440-03	610 to Waiola
Manawainui Resv. Industrial Park 2" Clearwell Effluent		11,983,800	12,317,800	334,000	110%	367	\$1.00	\$367.00
						610-340-00	100-440-22	610 to Waiola
Book 9 Industrial Ag	From Cubic Total metered			67,000	110%	74	\$1.00	\$74.00
						615-340-00	100-440-04	615 to Waiola

**Molokai Properties Intercompany Water Sales**

Monthly Water Values

Meters		Readings		Use	% Adjust. Factor	Sales in 1,000's	Rate per 1,000	Value
		01/24/08	02/25/08					
Mountain Water to Puu Nana Raw Water Res.	New Mtr	73,933,200	74,062,800	129,600	100%	130	\$1.00	\$130.00
						615-340-00	WAI-440-06	615 to Waiola
MPU Kaluakoi Project Meter Plus Moana Makani		702,826,400	720,804,400	19,421,900	110%	21,364	\$1.00	\$21,364.00
		72,594,800	74,038,700			610-340-00	100-440-05	610 to MPU
M'loa Puunana 8" Mtr Water Sale (Mloa Proj Mtr)		839,846,000	844,269,000	2,979,100	110%	3,277	\$1.00	\$3,277.00
		72,594,800	74,038,700			610-340-00	100-440-03	610 to Waiola
Manawainui Resv. Industrial Park 2" Clearwell Effluent		12,317,800	13,534,000	1,216,200	110%	1,338	\$1.00	\$1,338.00
						610-340-00	100-440-22	610 to Waiola
Book 9 Industrial Ag	From Cubic Total metered			440,000	110%	484	\$1.00	\$484.00
						615-340-00	100-440-04	615 to Waiola

# Molokai Properties Intercompany Water Sales

Monthly Water Values

Meters		Readings		Use	% Adjust. Factor	Sales in 1,000's	Rate per 1,000	Value
		02/25/08	03/24/08					
Mountain Water to Puu Nana Raw Water Res.	New Mtr	74,062,800	74,063,300	500	100%	1	\$1.00	\$1.00
						615-340-00	WAI-440-06	615 to Waiola
MPU Kaluakoi Project Meter Plus Moana Makani		720,804,400	739,328,400	19,825,800	110%	21,808	\$1.00	\$21,808.00
		74,038,700	75,340,500			610-340-00	100-440-05	610 to MPU
M'loa Puunana 8" Mtr Water Sale (Mloa Proj Mtr)		844,269,000	848,322,000	2,751,200	110%	3,026	\$1.00	\$3,026.00
		74,038,700	75,340,500			610-340-00	100-440-03	610 to Waiola
Manawainui Resv. Industrial Park 2" Clearwell Effluent		13,534,000	13,938,000	404,000	110%	444	\$1.00	\$444.00
						610-340-00	100-440-22	610 to Waiola
Book 9 Industrial Ag	From Cubic							
	Total metered			352,000	110%	387	\$1.00	\$387.00
						615-340-00	100-440-04	615 to Waiola

# Molokai Properties Intercompany Water Sales

Monthly Water Values

Meters		Readings		Use	% Adjust. Factor	Sales in 1,000's	Rate per 1,000	Value
		03/24/08	04/24/08					
Mountain Water to Puu Nana Raw Water Res.	New Mtr	74,063,300	74,065,800	2,500	100%	3	\$1.00	\$3.00
						615-340-00 WAI-440-06	615 to Waiola	
MPU Kaluakoi Project Meter Plus Moana Makani		739,328,400	754,566,400	16,768,700	110%	18,446	\$1.00	\$18,446.00
		75,340,500	76,871,200			610-340-00 100-440-05	610 to MPU	
M'loa Puunana 8" Mtr Water Sale (Mloa Proj Mtr)		848,322,000	851,571,000	1,718,300	110%	1,890	\$1.00	\$1,890.00
		75,340,500	76,871,200			610-340-00 100-440-03	610 to Waiola	
Manawainui Resv. Industrial Park 2" Clearwell Effluent								
		13,938,000	14,283,300	345,300	110%	380	\$1.00	\$380.00
						610-340-00 100-440-22	610 to Waiola	
Book 9 Industrial Ag	From Cubic Total metered			408,000	110%	449	\$1.00	\$449.00
						615-340-00 100-440-04	615 to Waiola	

# Molokai Properties Intercompany Water Sales

Monthly Water Values

Meters		Readings		Use	% Adjust. Factor	Sales in 1,000's	Rate per 1,000	Value
		04/24/08	05/23/08					
Mountain Water to Puu Nana Raw Water Res.	New Mtr	74,065,800	74,071,200	5,400	100%	5	\$1.00	\$5.00
						615-340-00	WAI-440-06	615 to Waiola
MPU Kaluakoi Project Meter Plus Moana Makani		754,566,400	768,209,400	14,999,400	110%	16,499	\$1.00	\$16,499.00
		76,871,200	78,227,600			610-340-00	100-440-05	610 to MPU
M'loa Puunana 8" Mtr Water Sale (Mloa Proj Mtr)		851,571,000	854,546,000	1,618,600	110%	1,780	\$1.00	\$1,780.00
		76,871,200	78,227,600			610-340-00	100-440-03	610 to Waiola
Manawainui Resv. Industrial Park 2" Clearwell Effluent		14,283,300	14,773,500	490,200	110%	539	\$1.00	\$539.00
						610-340-00	100-440-22	610 to Waiola
Book 9 Industrial Ag	From Cubic Total metered			1,954,000	110%	2,149	\$1.00	\$2,149.00
						615-340-00	100-440-04	615 to Waiola

Molokai Properties Intercompany Water Sales

Monthly Water Values								
Meters		Readings		Use	% Adjust. Factor	Sales in 1,000's	Rate per 1,000	Value
		05/23/08	06/23/08					
Mountain Water to Puu Nana Raw Water Res.	New Mtr	74,071,200	74,075,100	3,900	100%	4	\$1.00	\$4.00
						615-340-00	WAI-440-06	615 to Waiola
MPU Kaluakoi Project Meter Plus Moana Makani		768,209,400	778,732,400	11,957,800	110%	13,154	\$1.00	\$13,154.00
		78,227,600	79,662,400			610-340-00	100-440-05	610 to MPU
M'loa Puunana 8" Mtr Water Sale (Mloa Proj Mtr)		854,546,000	858,227,000	2,246,200	110%	2,471	\$1.00	\$2,471.00
		78,227,600	79,662,400			610-340-00	100-440-03	610 to Waiola
Manawainui Resv. Industrial Park 2" Clearwell Effluent		14,773,500	15,212,800	439,300	110%	483	\$1.00	\$483.00
						610-340-00	100-440-22	610 to Waiola
Book 9 Industrial Ag	From Cubic Total metered			447,000	110%	492	\$1.00	\$492.00
						615-340-00	100-440-04	615 to Waiola

## Molokai Properties Intercompany Water Sales

			07/31/07	8/31/2007	9/30/2007	10/31/2007	11/30/2007	12/31/2007	1/31/2008	2/29/2008	3/31/2008	4/30/2008	5/31/2008	6/30/2008
Meters	% Adjust Factor	Rate per 1,000 Value	Value	Value	Value	Value	Value	Value	Value	Value	Value	Value	Value	Value
Mountain Water to Puu Nana Raw Water Res.	New	100% WAI-440-06	\$1.00 9666 615 to Waiola	1,178 615 to Waiola	392.00 615 to Waiola	488 615 to Waiola	406 615 to Waiola	275 615 to Waiola	184 615 to Waiola	130 615 to Waiola	1 615 to Waiola	3 615 to Waiola	5 615 to Waiola	4 615 to Waiola
MPU Kaluakoi Project Meter Plus Moana Makani		110% 100-440-05	\$1.00 15494 610 to MPU	26,809 610 to MPU	24,338.00 610 to MPU	25918 610 to MPU	20543 610 to MPU	12257 610 to MPU	14812 610 to MPU	21364 610 to MPU	21808 610 to MPU	18446 610 to MPU	16499 610 to MPU	13154 610 to MPU
M'loa Puunana 8" Mtr Water Sale (M'loa Proj Mtr)		110% 100-440-03	\$1.00 2517 610 to Waiola	2,769 610 to Waiola	3,073.00 610 to Waiola	2575 610 to Waiola	3055 610 to Waiola	2204 610 to Waiola	2754 610 to Waiola	3277 610 to Waiola	3026 610 to Waiola	1890 610 to Waiola	1780 610 to Waiola	2471 610 to Waiola
Manawainui Resv. Industrial Park 2" Clearwell Effluent		110% 100-440-22	\$1.00 205 610 to Waiola	466 610 to Waiola	287.00 610 to Waiola	723 610 to Waiola	384 610 to Waiola	383 610 to Waiola	367 610 to Waiola	1338 610 to Waiola	444 610 to Waiola	380 610 to Waiola	539 610 to Waiola	483 610 to Waiola
Book 9 Industrial Ag		110% 100-440-04	\$1.00 630 615 to Waiola	1,108 615 to Waiola	439.00 615 to Waiola	590 615 to Waiola	134 615 to Waiola	260 615 to Waiola	74 615 to Waiola	484 615 to Waiola	387 615 to Waiola	449 615 to Waiola	2149 615 to Waiola	492 615 to Waiola

# Molokai Properties Intercompany Water Sales

Monthly Water Values

Meters		Readings		Use	% Adjust. Factor	Sales in 1,000's	Rate per 1,000	Value
		06/23/08	07/23/08					
Mountain Water to Puu Nana Raw Water Res.	New Mtr	74,075,100	74,076,000	900	100%	1	\$1.00	\$1.00
						615-340-00	WAI-440-06	615 to Waiola
MPU Kaluakoi Project Meter Plus Moana Makani		778,732,400	790,811,400	13,463,700	110%	14,810	\$1.00	\$14,810.00
		79,662,400	81,047,100			610-340-00	100-440-05	610 to MPU
M'loa Puunana 8" Mtr Water Sale (Mloa Proj Mtr)		858,227,000	861,578,000	1,966,300	110%	2,163	\$1.00	\$2,163.00
		79,662,400	81,047,100			610-340-00	100-440-03	610 to Waiola
Manawainui Resv. Industrial Park 2" Clearwell Effluent		15,212,800	15,400,000	187,200	110%	206	\$1.00	\$206.00
						610-340-00	100-440-22	610 to Waiola
Book 9 Industrial Ag	From Cubic Total metered			991,000	110%	1,090	\$1.00	\$1,090.00
						615-340-00	100-440-04	615 to Waiola

# Molokai Properties Intercompany Water Sales

Monthly Water Values

Meters		Readings		Use	% Adjust. Factor	Sales in 1,000's	Rate per 1,000	Value
		07/23/08	08/25/08					
Mountain Water to Puu Nana Raw Water Res.	New Mtr	74,076,000	74,078,500	2,500	100%	3	\$1.00	\$3.00
						615-340-00	WAI-440-06	615 to Waiola
MPU Kaluakoi Project Meter Plus Moana Makani		790,811,400 81,047,100	804,284,400 82,816,500	15,242,400	110%	16,767	\$1.00	\$16,767.00
						610-340-00	100-440-05	610 to MPU
M'loa Puunana 8" Mtr Water Sale (Mloa Proj Mtr)		861,578,000 81,047,100	865,464,000 82,816,500	2,116,600	110%	2,328	\$1.00	\$2,328.00
						610-340-00	100-440-03	610 to Waiola
Manawainui Resv. Industrial Park 2" Clearwell Effluent		15,400,000	15,984,700	584,700	110%	643	\$1.00	\$643.00
						610-340-00	100-440-22	610 to Waiola
Book 9 Industrial Ag	From Cubic Total metered			1,216,000	110%	1,338	\$1.00	\$1,338.00
						615-340-00	100-440-04	615 to Waiola

# Molokai Properties Intercompany Water Sales

		Monthly Water Values								
Meters		Readings		Use	% Adjust. Factor	Sales In 1,000's	Rate per 1,000	30-Sep		31-Aug
		08/25/08	09/26/08					Value		Value
Mountain Water to Puu Nana Raw Water Res.	New Mtr	74,078,500	80,270,400	6,191,900	100%	6,192	\$1.00	\$6,192.00		\$3.00
								615-340-00 WAI-440-06 615 to Waiola		615 to Waiola
MPU Kaluakoi Project Meter Plus Moana Makani		804,284,400	819,836,400	16,725,600	110%	18,398	\$1.00	\$18,398.00		\$16,767.00
		82,816,500	83,990,100					610-340-00 100-440-05 610 to MPU		610 to MPU
M'loa Puunana 8" Mtr Water Sale (M'loa Proj Mtr)		865,484,000	868,451,000	1,813,400	110%	1,995	\$1.00	\$1,995.00		\$2,328.00
		82,816,500	83,990,100					610-340-00 100-440-03 610 to Waiola		610 to Waiola
Manawainui Resv. Industrial Park 2" Clearwell Effluent				246,800	110%	271	\$1.00	\$271.00		\$643.00
		15,984,700	16,231,500					610-340-00 100-440-22 610 to Waiola		610 to Waiola
Book 9 Industrial Ag	From Cubic Total metered			616,000	110%	678	\$1.00	\$678.00		\$1,338.00
								615-340-00 100-440-04 615 to Waiola		615 to Waiola

# Molokai Properties Intercompany Water Sales

Monthly Water Values									
Meters		Readings		Use	% Adjust. Factor	Sales in 1,000's	Rate per 1,000	30-Sep	31-Aug
		08/25/08	09/26/08					Value	Value
Mountain Water to Puu Nana Raw Water Res.	New Mtr	74,078,500	80,270,400	6,191,900	100%	6,192	\$1.00	\$6,192.00	\$3.00
						615-340-00	WAI-440-06	615 to Waiola	615 to Waiola
MPU Kaluakoi Project Meter		804,284,400	819,836,400	16,725,600	110%	18,398	\$1.00	\$18,398.00	\$16,767.00
					old rate	9,803	\$1.00	\$9,803.00	
					new rate	8,595	\$1.90	\$16,331.00	
Plus Moana Makani		82,816,500	83,990,100			610-340-00	100-440-05	610 to MPU	610 to MPU
M'loa Puunana 8" Mtr Water Sale (Mloa Proj Mtr)		865,464,000	868,451,000	1,813,400	110%	1,995	\$1.00	\$1,995.00	\$2,328.00
		82,816,500	83,990,100			610-340-00	100-440-03	610 to Waiola	610 to Waiola
Manawainui Resv. Industrial Park 2" Clearwell Effluent		15,984,700	16,231,500	246,800	110%	271	\$1.00	\$271.00	\$643.00
						610-340-00	100-440-22	610 to Waiola	610 to Waiola
Book 9 Industrial Ag	From Cubic Total metered			616,000	110%	678	\$1.00	\$678.00	\$1,338.00
						615-340-00	100-440-04	615 to Waiola	615 to Waiola

## Molokai Properties Intercompany Water Sales

Monthly Water Values									
Revised									
Meters	Readings		Use	% Adjust.	Sales	Rate	30-Sep	30-Sep	
	08/25/08	09/26/08		Factor	in 1,000's	per 1,000	Value	Value	
Mountain Water to Puu Nana Raw Water Res.	New Mtr	74,078,500	80,270,400	6,191,900	100%	6.192	\$2.78	\$17,213.00	\$8,192.00
					615-340-00	WAI-440-06	615 to Waiola	615 to Waiola	
MPU Kaluakoi Project Meter		804,284,400	819,836,400	16,725,600	110%	18.398			\$18,398.00
		old rate		9,803	110%	10,783	\$1.00	\$9,803.00	
		new rate		8,595	110%	9,455	\$1.90	\$16,331.00	
Plus Moana Makani		82,816,500	83,990,100		610-340-00	100-440-05	610 to MPU	610 to MPU	
M'loa Puunana 8" Mtr Water Sale (M'loa Proj Mtr)		865,464,000	868,451,000	1,813,400	110%	1.995	\$2.78	\$5,545.00	\$1,995.00
		82,816,500	83,990,100		610-340-00	100-440-03	610 to Waiola	610 to Waiola	
Manawainui Resv. Industrial Park 2" Clearwell Effluent		15,984,700	16,231,500	246,800	110%	271	\$2.78	\$755.00	\$271.00
					610-340-00	100-440-22	610 to Waiola	610 to Waiola	
Book 9 Industrial Ag	From Cubic								
	Total metered		616,000	110%	678	\$2.78	\$1,884.00	\$678.00	
					615-340-00	100-440-04	615 to Waiola	615 to Waiola	
Note: Book 210-10 gallons are at Rete9. DO NOT multiply by new rate							\$51,531.00	\$27,534.00	
For September 2008, only 8,595,000 gallons are at new rate.								\$23,997.00	
Report #32							Actual rev incr > MPU	\$7,736.00	

# Molokai Properties Intercompany Water Sales

		Monthly Water Values						Revised	
Meters		Readings		Use	% Adjust. Factor	Sales in 1,000's	Rate per 1,000	30-Sep	30-Sep
		09/26/08	10/24/08					Value	Value
Mountain Water to Puu Nana Raw Water Res.	New Mtr	80,270,400	87,371,700	7,101,300	100%	7,101	\$2.78	\$19,742.00	\$6,192.00
								615 to Waiola	615 to Waiola
MPU Kaluakoi Project Meter Plus Moana Makani		819,836,400	832,889,400	13,754,600	110%	15,130	\$1.90	\$28,747.00	\$18,398.00
		83,990,100	84,691,700					610 to MPU	610 to MPU
M'loa Puunana 8" Mtr Water Sale (Mloa Proj Mtr)		868,451,000	870,591,000	1,438,400	110%	1,582	\$2.78	\$4,399.00	\$1,995.00
		83,990,100	84,691,700					610 to Waiola	610 to Waiola
Manawainui Resv. Industrial Park 2" Clearwell Effluent				430,300	110%	473	\$2.78	\$1,316.00	\$271.00
		16,231,500	16,661,800					610 to Waiola	610 to Waiola
Book 9 Industrial Ag	From Cubic Total metered			370,000	110%	407	\$2.78	\$1,131.00	\$678.00
								615 to Waiola	615 to Waiola

Note: Book 210-10 gallons are at Rate9. DO NOT multiply by new rate  
For September 2008, only 8,595,000 gallons are at new rate.

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# Molokai Properties Intercompany Water Sales

Monthly Water Values

		Readings		Use	% Adjust. Factor	Sales in 1,000's	Rate per 1,000	Revised	30-Nov
Meters		10/24/08	11/25/08					Value	
Mountain Water to Puu Nana Raw Water Res.	New Mtr	87,371,700	91,468,500	4,096,800	100%	4,097	\$2.78	\$11,389.00	
						615-340-00	WAI-440-06	615 to Waiola	
MPU Kaluakoi Project Meter Plus Moana Makani		832,889,400 84,691,700	842,878,400 85,276,500	10,573,800	110%	11,631	\$1.90	\$22,099.00	
						610-340-00	100-440-05	610 to MPU	
M'loa Puunana 8" Mtr Water Sale (M'loa Proj Mtr)		870,591,000 84,691,700	872,736,000 85,276,500	1,560,200	110%	1,716	\$2.78	\$4,771.00	
						610-340-00	100-440-03	610 to Waiola	
Manawainui Resv. Industrial Park 2" Clearwell Effluent		16,661,800	17,191,000	529,200	110%	582	\$2.78	\$1,618.00	
						610-340-00	100-440-22	610 to Waiola	
Book 9 Industrial Ag	From Cubic Total metered			244,000	110%	268	\$2.78	\$746.00	
						615-340-00	100-440-04	615 to Waiola	

Note: Book 210-10 gallons are at Rete9. DO NOT multiply by new rate  
For September 2008, only 8,595,000 gallons are at new rate.

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**Molokai Properties Intercompany Water Sales**

Monthly Water Values

		Readings		Use	% Adjust. Factor	Sales in 1,000's	Rate per 1,000	Revised	30-Nov
Meters		11/25/08	12/26/08					Value	
Mountain Water to Puu Nana Raw Water Res.	New Mtr	91,468,500	92,626,300	1,157,800	100%	1,158	\$2.78		\$3,219.00
						615-340-00	WAI-440-06	615 to Waiola	
MPU Kaluakoi Project Meter Plus Moana Makani		842,878,400 85,276,500	848,934,400 85,685,700	6,465,200	110%	7,112	\$1.90		\$13,512.00
						610-340-00	100-440-05	610 to MPU	
M'loa Puunana 8" Mtr Water Sale (Mloa Proj Mtr)		872,736,000 85,276,500	874,427,000 85,685,700	1,281,800	110%	1,410	\$2.78		\$3,920.00
						610-340-00	100-440-03	610 to Waiola	
Manawainui Resv. Industrial Park 2" Clearwell Effluent		17,191,000	17,497,400	306,400	110%	337	\$2.78		\$937.00
						610-340-00	100-440-22	610 to Waiola	
Book 9 Industrial Ag	From Cubic Total metered			189,000	110%	208	\$2.78		\$578.00
						615-340-00	100-440-04	615 to Waiola	

Note: Book 210-10 gallons are at Rete9. DO NOT multiply by new rate  
For September 2008, only 8,595,000 gallons are at new rate.

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# Molokai Properties Intercompany Water Sales

Monthly Water Values

		Readings		Use	% Adjust. Factor	Sales in 1,000's	Rate per 1,000	30-Nov
Meters		12/26/08	01/26/09					Value
Mountain Water to Puu Nana Raw Water Res.	New Mtr	92,626,300	93,444,000	817,700	100%	818	\$2.78	\$2,273.00
						615-340-00	WAI-440-06	615 to Waiola
MPU Kaluakoi Project Meter Plus Moana Makani		848,934,400 85,685,700	854,679,400 86,106,500	6,165,800	110%	6,782	\$1.90	\$12,887.00
						610-340-00	100-440-05	610 to MPU
M'loa Puunana 8" Mtr Water Sale (M'loa Proj Mtr)		874,427,000 85,685,700	876,205,000 86,106,500	1,357,200	110%	1,493	\$2.78	\$4,150.00
						610-340-00	100-440-03	610 to Waiola
Manawainui Resv. Industrial Park 2" Clearwell Effluent		17,497,400	17,982,000	484,600	110%	533	\$2.78	\$1,482.00
						610-340-00	100-440-22	610 to Waiola
Book 9 Industrial Ag	From Cubic Total metered			305,000	110%	336	\$2.78	\$933.00
						615-340-00	100-440-04	615 to Waiola

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## Molokai Properties Intercompany Water Sales

Monthly Water Values

		Readings		Use	% Adjust. Factor	Sales In 1,000's	Rate per 1,000	Revised	
Meters		01/26/09	02/25/09					30-Nov	Value
Mountain Water to Puu Nana Raw Water Res.	New Mtr	93,444,000	95,349,900	1,905,900	100%	1,906	\$2.78		\$5,298.00
						615-340-00	WAI-440-06	Waiola to MPU	
MPU Kaluakoi Project Meter Plus Moana Makani		854,679,400 86,106,500	862,300,400 86,567,100	8,081,600	110%	8,890	\$1.90		\$16,891.00
						610-340-00	100-440-05	MPU	
M'loa Puunana 8" Mtr Water Sale (Mloa Proj Mtr)		876,205,000 86,106,500	877,918,000 86,567,100	1,252,400	110%	1,378	\$2.78		\$3,830.00
						610-340-00	100-440-03	MPU to Waiola	
Manawainui Resv. Industrial Park 2" Clearwell Effluent		17,982,000	18,445,400	463,400	110%	510	\$2.78		\$1,417.00
						610-340-00	100-440-22	MPU to Waiola	
Book 9 Industrial Ag	From Cubic Total metered			245,000	110%	270	\$2.78		\$749.00
						615-340-00	100-440-04	Waiola	

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# Molokai Properties Intercompany Water Sales

Monthly Water Values

Meters		Readings		Use	% Adjust. Factor	Sales in 1,000's	Rate per 1,000	Value
		02/25/09	03/25/09					
Mountain Water to Puu Nana Raw Water Res.	New Mtr	95,349,900	99,385,400	4,035,500	100%	4,036	\$2.78	\$11,219.00
						615-340-00	WAI-440-06	Waiola
MPU Kaluakoi Project Meter Plus Moana Makani		862,300,400	870,647,400	8,882,100	110%	9,770	\$1.90	\$18,564.00
		86,567,100	87,102,200			610-340-00	100-440-05	MPU
M'loa Puunana 8" Mtr Water Sale (Mloa Proj Mtr)		877,918,000	880,030,000	1,576,900	110%	1,735	\$2.78	\$4,822.00
		86,567,100	87,102,200			610-340-00	100-440-03	MPU to Waiola
Manawainui Resv. Industrial Park 2" Clearwell Effluent		18,445,400	18,650,900	205,500	110%	226	\$2.78	\$628.00
						610-340-00	100-440-22	MPU to Waiola
Book 9 Industrial Ag	From Cubic Total metered			299,000	110%	329	\$2.78	\$914.00
						615-340-00	100-440-04	Waiola

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# Molokai Properties Intercompany Water Sales

Monthly Water Values

Meters		Readings		Use	% Adjust. Factor	Sales in 1,000's	Rate per 1,000	Value
		03/25/09	04/24/09					
Mountain Water to Puu Nana Raw Water Res.	New Mtr	99,385,400	103,267,400	3,882,000	100%	3,882	\$2.78	\$10,792.00
						615-340-00	WAI-440-06	Waiola
MPU Kaluakoi Project Meter Plus Moana Makani		870,647,400	881,978,400	11,956,100	110%	13,152	\$1.90	\$24,988.00
		87,102,200	87,727,300			610-340-00	100-440-05	MPU
M'loa Puunana 8" Mtr Water Sale (Mloa Proj Mtr)		880,030,000	881,978,400	1,323,300	110%	1,456	\$2.78	\$4,047.00
		87,102,200	87,727,300			610-340-00	100-440-03	MPU to Waiola
Manawainui Resv. Industrial Park 2" Clearwell Effluent		18,650,900	18,650,900	0	110%	0	\$2.78	\$0.00
						610-340-00	100-440-22	MPU to Waiola
Book 9 Industrial Ag	From Cubic Total metered			350,000	110%	385	\$2.78	\$1,070.00
						615-340-00	100-440-04	Waiola

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**Molokai Properties Intercompany Water Sales**

Monthly Water Values

Meters		Readings		Use	% Adjust. Factor	Sales in 1,000's	Rate per 1,000	Value
		04/24/09	05/26/09					
Mountain Water to Puu Nana Raw Water Res.	New Mtr	103,267,400	106,591,600	3,324,200	100%	3,324	\$2.78	\$9,241.00
						615-340-00 WAI-440-06	Waiola	
MPU Kaluakoi Project Meter Plus Moana Makani		881,978,400	893,053,400	11,807,200	110%	12,988	\$1.90	\$24,677.00
		87,727,300	88,459,500			610-340-00 100-440-05	MPU	
M'loa Puunana 8" Mtr Water Sale (Mloa Proj Mtr)		881,978,400	884,632,000	1,921,400	110%	2,114	\$2.78	\$5,876.00
		87,727,300	88,459,500			610-340-00 100-440-03	MPU to Waiola	
Manawainui Resv. Industrial Park 2" Clearwell Effluent		18,650,900	18,803,900	153,000	110%	168	\$2.78	\$468.00
						610-340-00 100-440-22	MPU to Waiola	
Book 9 Industrial Ag	From Cubic Total metered			388,000	110%	427	\$2.78	\$1,187.00
						615-340-00 100-440-04	Waiola	

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Molokai Properties Intercompany Water Sales

Monthly Water Values								
Meters		Readings		Use	% Adjust. Factor	Sales in 1,000's	Rate per 1,000	Value
		05/26/09	06/25/09					
Mountain Water to Puu Nana Raw Water Res.	New Mtr	106,591,600	109,524,500	2,932,900	100%	2,933	\$2.78	\$8,153.00
						615-340-00	WAI-440-06	Waiola
MPU Kaluakoi Project Meter Plus Moana Makani		893,053,400	905,383,400	13,080,300	110%	14,388	\$1.90	\$27,338.00
		88,459,500	89,209,800			610-340-00	100-440-05	MPU
M'loa Puunana 8" Mtr Water Sale (Mloa Proj Mtr)		884,632,000	887,070,000	1,687,700	110%	1,856	\$2.78	\$5,161.00
		88,459,500	89,209,800			610-340-00	100-440-03	MPU to Waiola
Manawainui Resv. Industrial Park 2" Clearwell Effluent		18,803,900	18,803,900	0	110%	0	\$2.78	\$0.00
						610-340-00	100-440-22	MPU to Waiola
Book 9 Industrial Ag	From Cubic Total metered			351,000	110%	386	\$2.78	\$1,073.00
						615-340-00	100-440-04	Waiola

# Molokai Properties Intercompany Water Sales

Monthly Water Values

Meters		Readings		Use	% Adjust. Factor	Sales in 1,000's	Rate per 1,000	Value
		06/25/09	07/27/09					
Mountain Water to Puu Nana Raw Water Res.	New Mtr	109,524,500	113,620,100	4,095,600	100%	4,096	\$2.78	\$11,386.00
						615-340-00	WAI-440-06	Waiola
MPU Kaluakoi Project Meter Plus Moana Makani		905,383,400	917,747,400	13,256,900	110%	14,583	\$1.90	\$27,707.00
		89,209,800	90,102,700			610-340-00	100-440-05	MPU
M'loa Puunana 8" Mtr Water Sale (Mloa Proj Mtr)		887,070,000	889,501,000	1,538,100	110%	1,692	\$2.78	\$4,704.00
		89,209,800	90,102,700			610-340-00	100-440-03	MPU to Waiola
Manawainui Resv. Industrial Park 2" Clearwell Effluent		18,803,900	19,104,800	300,900	110%	331	\$2.78	\$920.00
						610-340-00	100-440-22	MPU to Waiola
Book 9 Industrial Ag	From Cubic							
	Total metered			328,000	110%	361	\$2.78	\$1,003.00
						615-340-00	100-440-04	Waiola

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# Molokai Properties Intercompany Water Sales

Monthly Water Values

Meters		Readings		Use	% Adjust. Factor	Sales in 1,000's	Rate per 1,000	Value
		07/27/09	08/25/09					
Mountain Water to Puu Nana Raw Water Res.	New Mtr	113,620,100	116,929,800	3,309,700	100%	3,310	\$2.78	\$9,201.00
						615-340-00	WAI-440-06	Waiola
MPU Kaluakoi Project Meter Plus Moana Makani		917,747,400	929,572,400	12,491,300	110%	13,740	\$1.90	\$26,107.00
		90,102,700	90,769,000			610-340-00	100-440-05	MPU
M'loa Puunana 8" Mtr Water Sale (Mloa Proj Mtr)		889,501,000	891,933,000	1,765,700	110%	1,942	\$2.78	\$5,400.00
		90,102,700	90,769,000			610-340-00	100-440-03	MPU to Waiola
Manawainui Resv. Industrial Park 2" Clearwell Effluent		19,104,800	19,104,800	0	110%	0	\$2.78	\$0.00
						610-340-00	100-440-22	MPU to Waiola
Book 9 Industrial Ag	From Cubic Total metered			397,000	110%	437	\$2.78	\$1,214.00
						615-340-00	100-440-04	Waiola

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# Molokai Properties Intercompany Water Sales

Monthly Water Values

Meters		Readings		Use	% Adjust. Factor	Sales in 1,000's	Rate per 1,000	Value
		08/25/09	09/25/09					
Mountain Water to Puu Nana Raw Water Res.	New Mtr	116,929,800	120,723,000	3,793,200	100%	3,793	\$2.78	\$10,545.00
						615-340-00	WAI-440-06	Waiola
MPU Kaluakoi Project Meter Plus Moana Makani		929,572,400	944,450,400	15,775,500	110%	17,353	\$1.90	\$32,971.00
		90,769,000	91,666,500			610-340-00	100-440-05	MPU
M'loa Puunana 8" Mtr(Proj.Mloa) Water Sale (Mloa Proj Mtr)(Moana Makani)		891,933,000	894,603,000	1,772,500	110%	1,950	\$2.78	\$5,420.00
		90,769,000	91,666,500			610-340-00	100-440-03	MPU to Waiola
Manawainui Resv. Industrial Park(Manawainui) 2" Clearwell Effluent		19,104,800	19,351,000	246,200	110%	271	\$2.78	\$753.00
						610-340-00	100-440-22	MPU to Waiola
Book 9 Industrial Ag	From Cubic Total metered			543,000	110%	597	\$2.78	\$1,660.00
						615-340-00	100-440-04	Waiola

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**Molokai Properties Intercompany Water Sales**

Monthly Water Values

Meters		Readings		Use	% Adjust. Factor	Sales in 1,000's	Rate per 1,000	Value
		09/25/09	10/26/09					
Mountain Water to Puu Nana Raw Water Res.	New Mtr	120,723,000	124,787,300	4,064,300	100%	4,064	\$2.78	\$11,299.00
						615-340-00	WAI-440-06	Waiola
MPU Kaluakoi Project Meter Plus Moana Makani(Moana Makani)		944,450,400	957,108,400	13,700,400	110%	15,070	\$1.90	\$28,634.00
		91,666,500	92,708,900			610-340-00	100-440-05	MPU
M'loa Puunana 8" Mtr(Proj.Mloa) Water Sale (Mloa Proj Mtr)(Moana Makani)		894,603,000	897,265,000	1,619,600	110%	1,782	\$2.78	\$4,953.00
		91,666,500	92,708,900			610-340-00	100-440-03	MPU to Waiola
Manawainui Resv. Industrial Park(Manawainui) 2" Clearwell Effluent		19,351,000	19,575,000	224,000	110%	246	\$2.78	\$685.00
						610-340-00	100-440-22	MPU to Waiola
Book 9 Industrial Ag	From Cubic Total metered			318,000	110%	350	\$2.78	\$972.00
						615-340-00	100-440-04	Waiola

Report #32

# Molokai Properties Intercompany Water Sales

Monthly Water Values									
Meters		Readings		Use	% Adjust. Factor	Sales in 1,000's	Rate per 1,000	31-Oct	30-Sep
		09/25/09	10/26/09					Value	Value
Mountain Water to Puu Nana Raw Water Res.	New Mtr	120,723,000	124,787,300	4,064,300	100%	4,064	\$2.78	\$11,299.00	\$10,545.00
						615-340-00	WAI-440-06	Waiola	Waiola
MPU Kaluakoi Project Meter Plus Moana Makani(Moana Makani)		944,450,400 91,666,500	957,108,400 92,708,900	13,700,400	110%	15,070	\$1.90	\$28,634.00	\$32,971.00
						610-340-00	100-440-05	MPU	MPU
M'loa Puunana 8" Mtr(Proj.Mloa) Water Sale (Mloa Proj Mtr)(Moana Makani)		894,603,000 91,666,500	897,265,000 92,708,900	1,619,600	110%	1,782	\$2.78	\$4,953.00	\$5,420.00
						610-340-00	100-440-03	MPU to Waiola	MPU to Waiola
Manawainui Resv. Industrial Park(Manawainui) 2" Clearwell Effluent		19,351,000	19,575,000	224,000	110%	246	\$2.78	\$685.00	\$753.00
						610-340-00	100-440-22	MPU to Waiola	MPU to Waiola
Book 9 Industrial Ag	From Cubic Total metered			318,000	110%	350	\$2.78	\$972.00	\$1,660.00
						615-340-00	100-440-04	Waiola	Waiola

Report #32

**ATTACHMENT  
WMA-SIR-105I**

## DAILY READINGS

Date: 12-11-09Reader: Bernard Juario

#	Location	Previous Reading	Current Reading	Total Usage	Heights	CL2
17	Manawainui Tank	196892	196892	-0-	00	10'
11	Well #17	774473	774473	-0-	000	
	MIS	903258	903258	-0-	000	
	Kualapuu Res.	90848	90891	43	000	8'
	Kipu Tanks	474437	474437	-0-	00	13'
	Kualapuu/Kipu	75579	75579	-0-	00	
	to Hawaiian Homes	56489	56489	-0-	00	
12	Mahana Pump	089005	089005	-0-	000	
13	Puunana Raw Water					15'
18/19	Puunana Ag Tank	314994	316234	1240	00	8'
16	Maunaloa Res.					
14	Project Maunaloa	901094	901182	88	000	
20	Kaluakoi 8"	917441	918148	701	000	
20	Kaluakoi 2"	553654	553654	-0-	00	
15	Moana Makani	945909	946345	436	00	
21	Puu Okoli Tank					19'
22	Mountain Water	311080	312622	1542	00	
	Airport Road					
	Animal Pen Road					
	Dixie Road					
	P. Park					
	Kualapuu WWTP	NOT WORKING				
	Maunaloa WWTP	NOT WORKING				
	Kaupoa Beach Village	487486	487486	-0-		

NOTES:

## DAILY READINGS

Date: 12-10-09Reader: Bernard Juario

#	Location	Previous Reading	Current Reading	Total Usage	Heights	CL2
17	Manawainui Tank	196892	196892	-0- 00	10'	
11	Well #17	774473	774473	-0- 000		
	MIS	903258	903258	-0- 000		
	Kualapuu Res.	90802	90848	46 000	9'	
	Kipu Tanks	474437	474437	-0- 00	11'	
	Kualapuu/Kipu	75579	75579	-0- 00		
	to Hawaiian Homes	56489	56489	-0- 00		
12	Mahana Pump	088430	089005	575 000		
13	Puunana Raw Water				17'	
18/19	Puunana Ag Tank	313784	314994	1210 00	8'	
16	Maunaloa Res.				20'	
14	Project Maunaloa	901006	901094	88 000		
20	Kaluakoi 8"	916834	917441	607 000		
20	Kaluakoi 2"	553654	553654	-0- 00		
15	Moana Makani	945474	945909	435 00		
21	Puu Okoli Tank				15'	
22	Mountain Water	309574	311080	1506 00		
	Airport Road					
	Animal Pen Road					
	Dixie Road					
	P. Park					
	Kualapuu WWTP	NOT WORKING				
	Maunaloa WWTP	NOT WORKING				
	Kaupoa Beach Village	487486	487486	-0-		

NOTES:

**MOLOKAI PUBLIC UTILITIES, INC.'S RESPONSES TO WEST MOLOKAI  
ASSOCIATION'S SUPPLEMENTAL INFORMATION REQUESTS**

**DOCKET NO. 2009-0048**

**WMA-SIR-106      Re: Response to WMA-IR-211**

- a. Please confirm that the Company has not allocated expenses for the test year, as shown on lines 8 through 25 of Exhibit 10, into fixed and variable expense categories.

**RESPONSE:** MPL has not made any such charges to MPU during the test year to date and does not currently plan to make any such charges for the remainder of the test year or for the foreseeable future following the end of the test year.

- b. Please state if the Company intends to provide an allocation of said expenses into fixed and variable expense categories. If so, when will such allocations be furnished? If not, please explain why the Company cannot provide such an allocation. Please provide the bases for the allocator/allocations.

**RESPONSE:** MPU has not prepared such an analysis and is not currently preparing such an analysis. MPU is not requesting a change in its rate structure and therefore does not believe such a cost of service is required. In addition, MPU does not believe the cost of preparing such a study, without planning to request a change in its rate design would be warranted. The Company believes that such an analysis can be prepared by WMA if one is desired.

**SPONSOR:** Robert O'Brien

**MOLOKAI PUBLIC UTILITIES, INC.'S RESPONSES TO WEST MOLOKAI  
ASSOCIATION'S SUPPLEMENTAL INFORMATION REQUESTS**

**DOCKET NO. 2009-0048**

**WMA-SIR-107      Re: Response to WMA-IR-212**

- a.     The "Specifications" for the Puunana Water Treatment Plant's Trimite Filter units, provided in MPU's response to CA-IR-7 (Attachment CA-IR-7b) do not provide any indications of the anticipated water losses and/or plant efficiency (i.e., treated water out/raw water in). Please provide the anticipated water loss at this function.

**RESPONSE:**                      See Attachment WMA-SIR-107a.

- b.     Losses at the Puunana Water Treatment Plant are stated to be approximately 8% to 10% in MPU's response to WMA IR-102.

However, the calculated losses shown on Workpaper MPU 10.2, page 3 of 5, line 4 represent 16.3% of the water lifted from the Mahana Pump Station ( $[31,188/190,992] \times 100\%$ ). Please explain the apparent inconsistency.

**RESPONSE:**                      The difference could be caused by the difference in the measurement periods and / or losses occurring between the Mahana Pump Station and the water released from the PWTP. The Company has not made any additional calculations to determine what portions of the difference between the stated percentages.

**MOLOKAI PUBLIC UTILITIES, INC.'S RESPONSES TO WEST MOLOKAI  
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**DOCKET NO. 2009-0048**

**WMA-SIR-107 (cont.)**

- c. Please provide the calculations and data base used to determine the losses shown on lines 2 and 4.

**RESPONSE:** See Attachment WMA-SIR-107c.

- d. Please provide the calculations and the data base used to determine the losses shown on line 13.

**RESPONSE:** See Attachment WMA-SIR-107c.

- e. Please provide an updated version of Workpaper MPU 10.2 incorporating all changes/corrections to date and the most recent diesel fuel costs/invoices.

**RESPONSE:** See Attachment CA-IR-36a.

**SPONSOR:** Robert O'Brien

**ATTACHMENT**  
**WMA-SIR-107a**

**Molokai Public Utilities  
Puunana Water Treatment Plant  
Calculations for Overall Plant Efficiency**

Overall plant efficiency is primarily affected by two seasonal raw water quality variables: turbidity, and temperature. In the warmer months the raw water tends to be less turbid and the higher temperature makes the coagulants more reactive. The floc, turbidity and coagulant, tends to be larger, more adhesive and the clarifiers do most of the work. In the cooler months the more turbid and cooler water requires higher coagulant doses. But the floc is smaller and less adhesive. This leads to faster solids loading of the clarifiers and filters. Subsequently they must be flushed and backwashed more often. In either season the chemical dosing is optimized to achieve the highest water quality with long clarifier/filter runs while preventing breakthrough at the end of the runs. The length of the clarifier runs is determined by the rate of solids loading and observed breakthrough. Then the timers in the programmable logic controller, PLC, are adjusted to automatically flush the clarifier at preset intervals. The length of the filter runs is determined by the headloss or back pressure in the filter which relates to the solids loading or by the effluent turbidity which would indicate breakthrough. Both parameters are monitored by the PLC and either will trigger an automatic backwash.

Following are two sets of calculations for overall plant efficiency during the two seasons. Unless otherwise stated, the times for each step of the clarifier flushes and back washes are averages of the variables used to optimize each operation. The flows are averages of the observed flow from the plant and clearwell effluent flow meters.

Conditions common to both sets of calculations

- ☐ Filters operate at an average flow of 310gpm or 18,600gph
- ☐ Clarifiers flush at the filter flow rate of 310gpm for 10 minutes, using raw water (RW)
- ☐ Backwash pump uses finished water (FW), 250gpm low rate for 4 minutes and 1000gpm high rate for 9 minutes.
- ☐ After backwash, filters run to waste for 4 minutes at 310gpm. Since this is not metered by the plant effluent meter, for these calculations it is considered raw water (RW).

**Winter Operations, generally December through February.**

On average clarifiers flush every 2.5 hours.

If a filter runs for 8 hours before loading to preset headloss or turbidity breakthrough:

[] will produce 148,000 gallons FW

[] will require 3.2 clarifier flushes or  $3.2 \times 10\text{min} \times 310\text{gpm} = 9,920$  gal RW

[] and one backwash or  $(4\text{min} \times 250\text{gpm}) + (9\text{min} \times 1,000\text{gpm}) = 10,000$  gal FW

$4\text{min} \times 310\text{gpm} = 1,240$  gal RW

Total raw water:  $148,000 + 9,920 + 1,240 = 159,960$  gallons

Total finished water:  $148,000 - 10,000 = 138,000$  gallons

Overall Plant Efficiency:  $138,000 \div 159,960 = 86.8\%$

If a filter runs for 12 hours:

[] will produce 223,200 gallons FW

[] will require 4.8 clarifier flushes or 14,880 gal RW

[] one backwash or 10,000gal FW and 1,240 gal RW

Total raw water:  $223,200 + 14,880 + 1,240 = 239,320$  gallons

Total finished water:  $223,200 - 10,000 + 213,200$  gallons

Overall Plant Efficiency:  $213,200 \div 239,320 = 89.1\%$

If a filter runs for 16 hours:

[] will produce 297,600 gallons

[] will require 6.4 clarifier flushes or 19,840 gal RW

[] one backwash or 10,000 gal FW and 1,240 gal RW

Total raw water:  $297,600 + 19,840 + 1,240 = 318,680$  gallons

Total finished water:  $297,600 - 10,000 = 287,600$  gallons

Overall Plant Efficiency:  $287,600 \div 318,680 = 90.2\%$

We generally don't see filter runs in excess of 16 hours this time of year.

### **Spring, Summer, and Fall Operations**

On average clarifiers flush every 3 hours.

If a filter runs 12 hours before headloss reaches setpoint or turbidity breakthrough

☐ will produce 223,200 gallons FW

☐ will require 4 clarifier flushes or  $4 \times 10\text{min} \times 310\text{gpm} = 12,400$  gallons RW

☐ one backwash or  $(4\text{min} \times 250\text{gpm}) + (9\text{min} \times 1,000\text{gpm}) = 10,000$  gal FW

$4\text{min} \times 310\text{gpm} = 1,240$  RW

Total raw water:  $223,200 + 12,400 + 1,240 = 236,840$  gallons

Total finished water:  $223,200 - 10,000 = 213,200$  gallons

Overall Plant Efficiency:  $213,200 \div 236,840 = 90.0\%$

If a filter runs 16 hours

☐ will produce 297,600 gallons FW

☐ will require 5.3 clarifier flushes or 16,430 gallons RW

☐ one backwash or 10,000 gallons FW and 1,240 gallons RW

Total raw water:  $297,600 + 16,430 + 1,240 = 315,270$  gallons

Total finished water:  $297,600 - 10,000 = 287,600$  gallons

Overall Plant Efficiency:  $287,600 \div 315,270 = 91.2\%$

If a filter runs 20 hours

☐ will produce 372,000 gallons FW

☐ will require 6.7 clarifier flushes or 20,700 gallons RW

☐ one backwash or 10,000 gallons FW and 1,240 gallons RW

Total raw water:  $372,000 + 20,700 + 1,240 = 393,940$  gallons

Total finished water:  $372,000 - 10,000 = 362,000$  gallons

Overall Plant Efficiency:  $362,000 \div 393,940 = 91.9\%$

If a filter runs 24 hours

☐ will produce 446,400 gallons finished water

☐ will require 8 flushes or 24,800 gallons RW

☐ one backwash or 10,000 gallons FW and 1,240 gallons RW

Total raw water:  $446,400 + 24,800 + 1,240 = 472,440$  gallons

Total finished water:  $446,400 - 10,000 = 436,400$  gallons

Overall Plant Efficiency:  $436,400 \div 472,440 = 92.4\%$

**ATTACHMENT  
WMA-SIR-107c**

Molokai Public Utilities, Inc.  
Docket No. 2009-0048  
Calculation of Water Loss  
( Gallons in Thousands)

Attachment WMA-SIR-107c

Line #	Description	[ 1 ] Reference Or Factor	[ 2 ] 12-Months Ended 3/31/07
<b><u>Water Production</u></b>			
1	Well 17 Gross Pumpage		334,984
2	Water Re-directed to Kualapuu		<u>(23,693)</u>
3	Net Delivered to MIS	L 1 + L 2	<u>311,291</u>
4	MIS Retention	<u>10.0%</u>	<u>(31,129)</u>
5	Net to MPU System	L 1 + L 4	303,855
Change in Stored Water Inventory			
6	Mualapuu Reservoir		(20)
7	MIS		(700)
8	Puunana Raw Water		(241)
9	Puu Okole reservoir		<u>(220)</u>
10	Total Change in Storage	Sum L 6 to L 9	<u>(1,181)</u>
11	Net to Customers	L 5 + L 10	302,674
<b><u>Water Use</u></b>			
<u>Kaluakoi</u>			
12	Internal		89,380
13	Condos		39,552
14	Park		6,105
15	Residential		<u>69,450</u>
16	Sub-total	Sum L 12 to L 15	<u>204,487</u>
17	<u>Kualapuu</u>		19,738
18	Water Treatment Plant Backwash		<u>46,206</u>
19	Total Usage	Sum L 16 to L 18	<u>270,431</u>
20	Total Lost & Unaccounted	L 11 - L 19	<u>32,243</u>
21	Percent L&U		<u>9.6%</u>

**MOLOKAI PUBLIC UTILITIES, INC.'S RESPONSES TO WEST MOLOKAI  
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**DOCKET NO. 2009-0048**

**WMA-SIR-108**      **Re: Response to WMA-IR-213**

- a.      MPU's response to CA-IR-2 omits any mention of plant or equipment items served through the Palaau meter. MPU's response to WMA-IR-213 appears overly vague and non responsive.

Specifically, please identify each plant or equipment item served through the Palaau meter by name, equipment nameplate rating (hp, kw, etc.) and precise geographic location.

**RESPONSE:**      The pump served by the Palaau meter recycles water at that location and does not provide service to any other equipment.

- b.      Show equipment/plant locations on a map of the Company's facilities as used in MPU's response to CA-IR-6 (Attachment CA-IR-6a, Part B) or on MPU's service territory map.

**RESPONSE:**      See response to part (a) above.

**SPONSOR:**      Robert O'Brien

**MOLOKAI PUBLIC UTILITIES, INC.'S RESPONSES TO WEST MOLOKAI  
ASSOCIATION'S SUPPLEMENTAL INFORMATION REQUESTS**

**DOCKET NO. 2009-0048**

**WMA-SIR-109**

**Re: Response to WMA-IR-301**

- a. Please confirm for the record that the Company does not have construction/record drawings, specifications and similar documentation for the storage reservoirs, tanks, distribution pipelines and related items that constitute its physical plant/facilities. If any such documents exist, please provide all of them.

**RESPONSE:**

The Company can confirm that, other than the construction and other supporting data for the water treatment plant, the Company does not have specifications or other documentation for the remaining plant and equipment.

- b. MPU's response concerning the age of the plant and facilities is incomplete. What are the ages of the storage reservoirs, tanks, distribution pipelines and other assets that were acquired in 2001 and are now fully depreciated?

**RESPONSE:**

To the best of the Company's knowledge, the majority of the plant serving customers, which would include Well 17, transportation and distribution pipes, reservoirs, tanks and other facilities were constructed during the 1970s and are fully depreciated at this time. The Puunana water treatment plant was initially constructed in 1997 and upgraded in 2005.

**MOLOKAI PUBLIC UTILITIES, INC.'S RESPONSES TO WEST MOLOKAI  
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**WMA-SIR-109 (cont.)**

- c. Please provide references to all recorded easements granted to MPU and its predecessors for Company assets/facilities located on property owned by MPL and its subsidiaries. Please provide copies of any unrecorded easements.

**RESPONSE:** The Company is not aware of any such easements.

- d. Please provide references to all recorded easements granted to MPU and its predecessors for pipelines and related equipment within or adjacent to road rights of way. Please provide copies of any unrecorded easements.

**RESPONSE:** The Company does not have a listing or single point of reference for such easements. The Company is currently reviewing its records to determine what recorded and unrecorded easements exist to respond to this information request and will provide such data as soon as it becomes available.

**SPONSOR:** Robert O'Brien

**MOLOKAI PUBLIC UTILITIES, INC.'S RESPONSES TO WEST MOLOKAI  
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**DOCKET NO. 2009-0048**

**WMA-SIR-110**

**Re: Response to WMA-IR-303**

- a. Please provide calculations and supporting data used to determine MPU's share of the cost for "certain maintenance equipment, fencing around certain reservoirs and portions of the water treatment plant and the structures at Well 17".

**RESPONSE:**

The Company objects to this continuing line of inquiry. The \$430 per month intercompany rental charge from MPL to MPU is not included in the test year expenses and does not have any impact on the revenue requirement in this proceeding. At this time the Company does not plan to include these rental charges in its revenue requirement in the test year or beyond.

- b. Please confirm that Well 17 and the Puunana Water Treatment Plant are, in fact, owned by the Company as stated in MPU's response to WMA-IR-301. If not, please identify each and every component, item, plant, or related facility that is owned by MPL and/or its subsidiaries together with the recorded cost and/or book value thereof.

**RESPONSE:**

This will confirm that Well 17 and the PWTP are owned by MPU. MPU also owns all of the facilities and equipment serving Well 17, with the exception of the roof at Well 17 which was constructed by MPL in 1998, paid for by MPL and

**MOLOKAI PUBLIC UTILITIES, INC.'S RESPONSES TO WEST MOLOKAI  
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**WMA-SIR-110 (cont.)**

not transferred to MPU. The Company will make the transfer of the asset from MPL to MPU, but the net asset value is close to zero since it was depreciated over a 10-year period.

- c. Please identify each and every MPL asset or cost record by name, initial cost and/or book value for which shared rental costs are claimed.

**RESPONSE:** See response to WMA-SIR-110a.

- d. Does MPL intend to claim these or other rental charges in the test year and beyond?

**RESPONSE:** See response to WMA-SIR-110a.

- e. Does MPU intend to pay such rental charges in the test year and beyond? If so, when/where will said rental payments be shown or included in the test year accounting documents (Exhibit MPU 10)?

**RESPONSE:** See response to WMA-SIR-110a.

**SPONSOR:** Robert O'Brien

**MOLOKAI PUBLIC UTILITIES, INC.'S RESPONSES TO WEST MOLOKAI  
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**DOCKET NO. 2009-0048**

**WMA-SIR-111      Re: Response to WMA-IR-401**

- a.      Please list routine operation and maintenance activities performed by Company personnel on a daily basis.

**RESPONSE:**      The operation and maintenance activities performed by the Company on a routine basis (daily, weekly, monthly) include the monitoring of tanks and reservoirs, monitoring and operations at the water treatment plant, observing and making all necessary pump and valve adjustments, maintenance on Well 17, meter readings, ground maintenance, and receipt, distribution and injections of chemicals to required locations and sites.

- b.      Please list routine operation and maintenance activities performed by Company personnel on an as needed basis.

**RESPONSE:**      The operation and maintenance activities performed on an as needed basis (routine only in that these activities recur, but not necessarily on a daily, weekly or monthly scheduled basis) include leak repairs, lateral replacements, pump adjustments or failures, emergency call-outs; responding to customer service requirements, and flushing to improve water quality.

- c.      Does the Puunana Water Treatment Plant operate continuously (24/7) without full time monitoring/intervention?

**MOLOKAI PUBLIC UTILITIES, INC.'S RESPONSES TO WEST MOLOKAI  
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**DOCKET NO. 2009-0048**

**WMA-SIR-111 (cont.)**

**RESPONSE:** The PWTP normally operates 24 hours per day for four or five days per week.

- d. Describe the procedures, methods and/or criteria used to establish the run times for the Mahana Pump Station and the Puunana Water Treatment Plant. That is, who actually determines the schedule of operations for the Mahana Pump Station and the Puunana Water Treatment Plant, and what criteria, methods or measurements are employed to develop/formulate said schedules?

**RESPONSE:** The operations of the Mahana Pump Station and the PWTP are scheduled and set on a manual basis. Both schedules are set on a weekly basis to run automatically subject to change as required daily. The weekly schedules are based on anticipated usage and reservoir and tank levels, which are also reviewed daily to determine if adjustments are required.

- e. Are the operating schedules changed/modified frequently (i.e., daily, twice a week, weekly, etc.)?

**RESPONSE:** The Mahana Pump Station schedule is preset on a weekly schedule each Monday. Normally the pumps run between six to eight hours per day for three to four days. The

**MOLOKAI PUBLIC UTILITIES, INC.'S RESPONSES TO WEST MOLOKAI  
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**WMA-SIR-111 (cont.)**

Company has the ability to change that schedule depending on the reservoir and tank levels, customer usage and other daily activities. The PWTP schedule is also set on Monday to operate through Thursday or Friday depending on anticipated customer usage and levels in the reservoirs and tanks. The Company can change this preset operation level at any time to increase or decrease the operating time.

- f. For example, is the Mahana Pump Station programmed to operate every day, every other day, twice a week, etc.?

**RESPONSE:** See response to WMA-SIR-110e.

- g. How long does it run whenever it operates? How often are these parameters changed?

**RESPONSE:** See response to WMA-SIR-110e.

- h. How is the pump's operation monitored? That is, did it start when it should and run for the complete programmed interval?

**RESPONSE:** The Mahana Pump and the PWTP are scheduled to operate and run automatically based on the schedule established and they are monitored daily. In addition, both the Mahana Pump and the PWTP have alarm systems that notify the

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**WMA-SIR-111 (cont.)**

proper employees that some fault has occurred and needs to  
be responded to.

**SPONSOR:** Robert O'Brien

**MOLOKAI PUBLIC UTILITIES, INC.'S RESPONSES TO WEST MOLOKAI  
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**DOCKET NO. 2009-0048**

**WMA-SIR-112      Re: Response to WMA-IR-402**

- a. Usage data provided in Attachment WMA-IR-402f shows a remarkably strong upward trend from December 2008 (420,800 gallons) through October 2009 (1,042,400 gallons). However, this increasing trend contradicts the oral testimony of several homeowners within the Moana Makani subdivision, presented at the public hearing held in Kaunakakai on September 3, 2009. The public hearing record will confirm testimony to the effect that the increased price of water had forced several owners to cease irrigation of private orchards and crops. Yet, the metered deliveries through the Moana Makani Bypass line in October 2009 were more than 250% of the metered usage in December 2008. Please explain these apparent inconsistencies.

**RESPONSE:** The comparison of December 2008 to October 2009 is not a valid or realistic comparison. A valid comparison of customer usage is to use the customer usage in October 2007 which was 1,468,600 gallons and the customer usage in October 2008, which dropped to 717,200 gallons. The Company believes that this significant drop of over 50% was most likely due to the temporary rate increase approved by the

**MOLOKAI PUBLIC UTILITIES, INC.'S RESPONSES TO WEST MOLOKAI  
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**WMA-SIR-112 (cont.)**

Commission effective September 2008. The usage in October 2009 of 1,042,400 gallons is also a decrease from the October 2007 usage of 1,468,800 of approximately 30% showing that the decrease in usage was continuing. Some of the increase in October 2009 over October 2008 could be due to a partial return to old usage patterns and/or to change in weather during those periods.

- b. In its response to WMA-IR-403e, the Company states that it provides service to 11 customers in the Moana Makani service area.

In PUC Docket No. 2002-0371, the Company's response to CA-IR-5 states that all but two of the lots in the Moana Makani subdivision would be served via the Bypass Line and, at that time, five (5) MPU customers at higher elevations within the Papohaku Ranchlands subdivision were also connected to the Moana Makani delivery system.

Please determine all of the lots/parcels that would be served from the Moana Makani Bypass Line at ultimate build out, and identify each lot by number on a map of the subdivisions (i.e., 30 of the 32 lots within the Moana Makani subdivision, plus a certain number of lots at higher elevations within the

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**WMA-SIR-112 (cont.)**

Papohaku Ranchlands subdivision).

**RESPONSE:** See Attachment WMA-SIR-112b

- c. Provide the monthly billings for each lot/parcel served from the Moana Makani Bypass Line during the period from January 2006 through November 2009.

**RESPONSE:** The Company does not have monthly billing data for each customer readily available. As described in response to several information requests, the Company has only a monthly billing record of approximately 60 pages and would have to review each monthly billing record to determine the monthly usage for each customer which would be unduly burdensome. The Company is willing to allow WMA to review these monthly billing records at the Company's office under the appropriate confidentiality agreement to list the monthly usage for each customer.

**SPONSOR:** Robert O'Brien

**ATTACHMENT**  
**WMA-SIR-112b**

U01330

MOLOKAI PROPERTIES LIMITED

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ROUTE SHEETS

12-11-2009

MOANA MAKANI

BOOK: 202 READING DATE: \_\_\_\_\_

WMA112B

ACCOUNT	NAME SERVICE ADDRESS	METER-NUMB SEQUENCE	SERV-TYPE METER LOCATION	PER3-USAGE	PER2-USAGE	PER1-USAGE	PREV-READ	CURR-READ
103	[REDACTED] LC #28 MOANA MAKANI	02	WATER					_____
104	[REDACTED] LC29 MOANA MAKANI	02	WATER				795	_____
166	[REDACTED] LC186/LOT 61 TMK: 5-1-006-135	02	WATER					_____
201	[REDACTED] LC 30 MOANA MAKANI	02	WATER				745	_____
261	[REDACTED] 31MM MOANA MAKANI SUBDIVISION	02	WATER	15	14	11	920	_____
270	[REDACTED] 40MM MOANA MAKANI SUBDIVISION	02	WATER					_____
281	[REDACTED] 42MM MOANA MAKANI SUBDIVISION	02	WATER	21	15	16	1155	_____
290	[REDACTED] 43MM MOANA MAKANI SUBDIVISION	02	WATER	49	83	95	6951	_____
301	[REDACTED]	02	WATER	18	16	11	2598	_____

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MOLOKAI PROPERTIES LIMITED  
ROUTE SHEETS  
MOANA MAKANI

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BOOK: 202 READING DATE: \_\_\_\_\_

ACCOUNT	NAME SERVICE ADDRESS	METER-NUMB SEQUENCE	SERV-TYPE METER LOCATION	PER3-USAGE	PER2-USAGE	PER1-USAGE	PREV-READ	CURR-READ
	46MM MOANA MAKANI SUBDIVISION							
310	██████████	02	WATER	16	13	12	2007	_____
	50MM MOANA MAKANI SUBDIVISION							
581	██████████	02	WATER					_____
	LOT 55 / LC 182 PAPOHAKU RANCH LANDS							
591	██████████	02	WATER					_____
	LOT 56 / LC 183 PAPOHAKU RANCH LANDS							
610	██████████	02	WATER	12	9	9	2022	_____
	LOT 59 PAPOHAKU RANCH LANDS							
620	██████████	19179764 01	WATER					_____
	LOT #58 / LC #185 TMK #5-1-006-134							
621	██████████	02	WATER					_____
	LOT 60 / LC 187 PAPOHAKU RANCH LANDS							
641	██████████	02	WATER	87	22	25	2364	_____
	191A PAPOHAKU RANCH LANDS							
651	██████████	02	WATER	61	55	33	6187	_____

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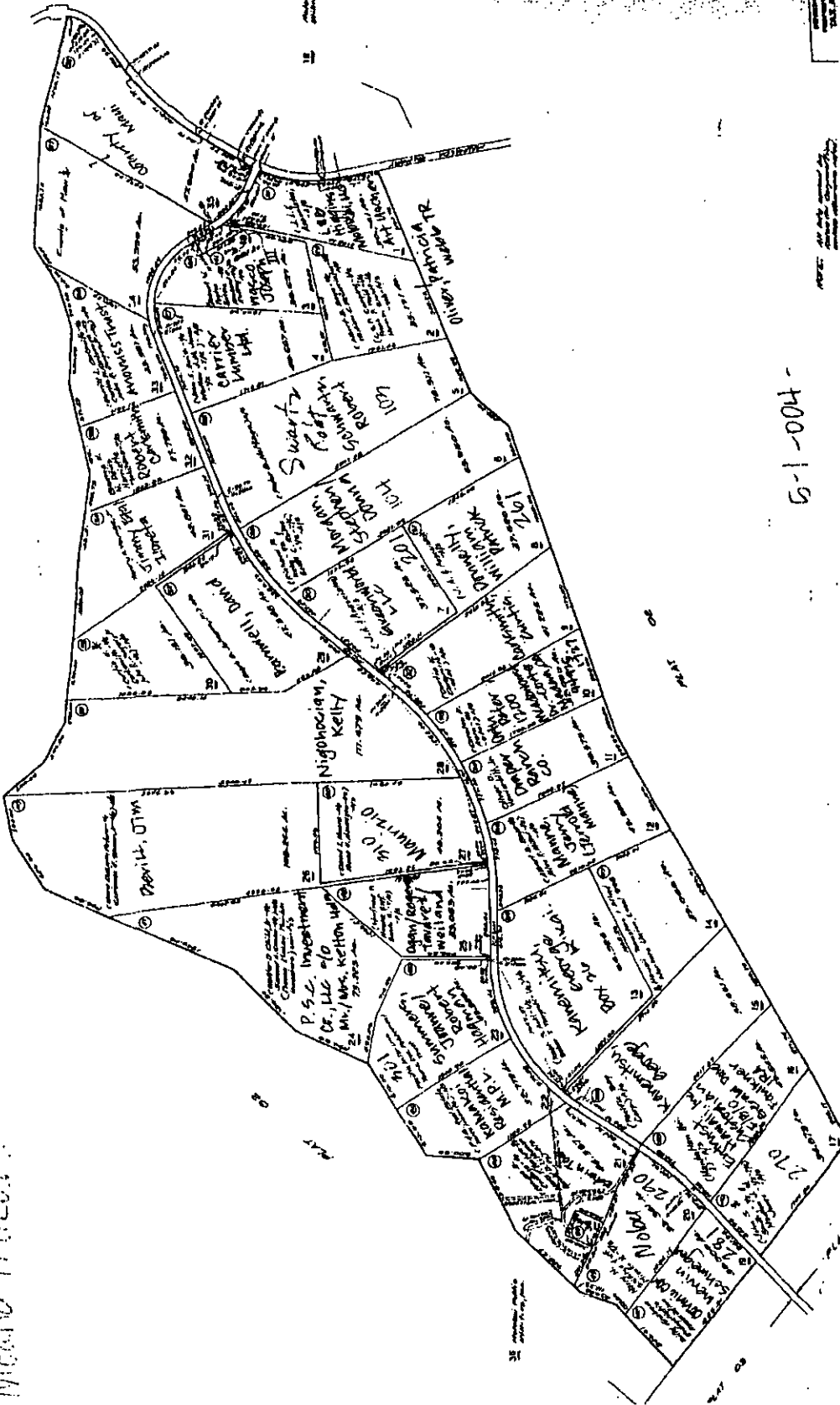
MOLOKAI PROPERTIES LIMITED  
ROUTE SHEETS  
MOANA MAKANI

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ACCOUNT	NAME SERVICE ADDRESS	METER-NUMB SEQUENCE	SERV-TYPE METER LOCATION	PER3-USAGE	PER2-USAGE	PER1-USAGE	PREV-READ	CURR-READ
	190B PAPOHAKU RANCH LANDS							
662	██████████	02	WATER	84	68	74	38883	_____
	191 PAPOHAKU RANCH LANDS							
672	██████████	02	WATER					_____
	LOT 65 / LC 192 OKUMA PAPOHAKU RANCH LANDS							
680	██████████	02	WATER					_____
	LOT 66 / LC 193 PAPOHAKU RANCH LANDS							
692	██████████	19179766 02	WATER	1	1	100	100	_____
	194 MM PAPOHAKU RANCH LANDS							
762	██████████	02	WATER					_____
	LOT 80 / LC 207 PAPOHAKU RANCH LANDS							
771	██████████	02	WATER	10	8	7	339	_____
	LOT 81 / LC 208 PAPOHAKU RANCH LANDS							

Meana Nakani Book 202



5-1-001-



**MOLOKAI PUBLIC UTILITIES, INC.'S RESPONSES TO WEST MOLOKAI  
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**DOCKET NO. 2009-0048**

**WMA-SIR-113      Re: Response to WMA-IR-408**

- a.      Exhibit MPU 10.13 is missing from the amended application filed on June 29, 2009. However, the section divider indicates that Exhibit MPU 10 consists of twelve (12) pages and, indeed, the amended application does contain 12 pages in this section.

Furthermore, the list of exhibits filed and incorporated by reference commencing on page 14 of the amended application does not list Exhibit MPU 10.13.

Please confirm that Exhibit MPU 10 consists of the twelve pages actually contained in the amended application. If not, please provide any pages omitted from the amended application and an updated list of the exhibits filed and incorporated by reference.

**RESPONSE:**                      It is confirmed that Exhibit MPU 10 consists of 12 pages.

- b.      If Exhibit MPU 10 does, in fact, consist of the twelve pages contained in the amended application, please correct the reference citations in Exhibit MPU 10.4, column (7).

**RESPONSE:**                      See Attachment WMA-SIR-113b.

**SPONSOR:**                      Robert O'Brien

**ATTACHMENT**  
**WMA-SIR-113b**

Molokai Public Utilities, Inc.  
 Cost of Sales  
 Test Year Ending June 30, 2010

		[ 1 ]	[ 2 ]	[ 3 ]	[ 4 ]	[ 5 ]	[ 6 ]	[ 7 ]
Line #	Description	Ref:	6/30/04	6/30/05	6/30/06	6/30/07	6/30/08	Test Year 6/30/10
<b><u>MPU Direct Expenses</u></b>								
1	Chemicals & Testing		\$49,265	\$20,031	\$8,592	\$779	\$112	
2	Chemical Shipping		2,739	3,189	841			
3	Charge from Wailoa for MM				(11,909)			
4	Chemicals							
5	Sub-Total		52,004	23,220	(2,476)	779	112	0
<b><u>MPL Charges for MPU - a/c # 610</u></b>								
								[ B ]
6	Salaries & Wages	[ A ]	23,759	30,127	54,806	64,901	64,198	[a] Exh 10.1
7	Employee Benefits				31,868	9,743	9,271	Exh 10.1
8	Payroll Taxes				4,707	5,860	5,196	Exh 10.1
9	Electricity				40,636	60,499	66,047	Exh 10.2
10	Repair & Maintenance				9,938	8,992	13,040	Exh 10.8
11	Materials & Supplies				74,371	60,378	67,011	Exh 10.5
12	Vehicle Fuel				4,192	4,102	4,667	Exh 10.5
13	Insurance				10,873	8,424	5,028	Exh 10.9
14	Professional				2,675	1,923	3,875	Exh 10.7
15	Travel				2,123	2,608	5,754	Exh 10.11
16	Postage				1,655	3,172	1,180	Exh 10.11
17	Communications				1,923	1,828	1,306	Exh 10.11
18	Administrative				610	520	297	Exh 10.11
19	Other Charges				524	697	208	Exh 10.11
20	Sub-Total		23,759	30,127	240,901	233,647	247,078	0
					8,592			
21	TOTAL		\$75,763	\$53,347	\$238,425	\$234,426	\$247,190	\$0

[ A ] Charges incurred by MPL for MPU charged through account # 610. Charges stopped in December 2008

[ B ] Charges after December 2008 made directly to MPU and reflected on Exhibits Noted

**MOLOKAI PUBLIC UTILITIES, INC.'S RESPONSES TO WEST MOLOKAI  
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**WMA-SIR-114      Re: Response to WMA-IR-501**

- a. Exhibits MPU 10 and MPU 11 do not identify any revenue from WOM for the costs associated with the treatment of raw water for WOM's customer base in Maunaloa and subsequent delivery of treated water to WOM's distribution facilities.

In its response to WMA-IR-108, MPU asserts that the current rate of \$2.78/TG is believed adequate to recover actual costs of water treatment attributable to WOM's usage of MPU's water treatment plant and facilities.

In its response to WMA-IR-119, MPU has provided an attachment listing measured water flows into the Puunana Raw Water Reservoir and out of the Maunaloa Reservoir. Average delivery of finished water to WOM for the most recent 22 months is approximately 2,450 TG per month.

Consequently, it would appear that MPU should receive approximately \$81,750 per year from WOM for water treatment costs. If it does, explain where the MPU revenues are recorded? If not, explain why not, and further describe what amounts are recorded and the reasons for the differences.

**MOLOKAI PUBLIC UTILITIES, INC.'S RESPONSES TO WEST MOLOKAI  
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**DOCKET NO. 2009-0048**

**WMA-SIR-114 (cont.)**

**RESPONSE:** It was determined that there was no revenue for the water sales to WOM at the Water Treatment Plant included in the MPU pro forma revenue for the test year. It was also determined that there was no expense on WOM for these water deliveries. The revenue charges from the treatment of water for WOM were transferred to MPU from MPL in December 2008 and should have been included in the pro forma test year revenue for MPU. Likewise, the expense charges for the treatment of water by MPU for WOM were also reflected on MPU as an expense but not charged to MPU. Attachment WMA-SIR-114a shows the revenue adjustment for pro forma test year revenue at present rates to be reflected on MPU of \$51,886, which is equal to the cost for the water treatment at present rates of \$51,886 which should be reflected on Exhibit WOM 10.3 on line 3 in addition to the \$9,000 which represents the charge for the water for Manawainui. This will result in an increase in revenue at present rates for MPU and a decrease in the revenue increase required. Likewise, the adjustment to be made on WOM will reflect an increase in the expenses for

**MOLOKAI PUBLIC UTILITIES, INC.'S RESPONSES TO WEST MOLOKAI  
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**DOCKET NO. 2009-0048**

**WMA-SIR-114 (cont.)**

the treated water and an increase in the revenue requirement for WOM,

- b. Again, please identify corresponding water treatment revenue and cost entries on the two rate applications (i.e., revenue to MPU and cost to WOM).

**RESPONSE:**

The water treatment revenue for MPU and the water treatment expense for WOM for the test year is shown on Attachment WMA-SIR-114a.

- c. Where are water treatment costs at \$2.78 per TG entered on the WOM rate application exhibits and where are water treatment revenues at the same \$2.78 per TG entered on the MPU rate application exhibits.

**RESPONSE:**

See response to parts (a) and (b) above.

**SPONSOR:**

Robert O'Brien

**ATTACHMENT**  
**WMA-SIR-114a**

Line #	Description	[ 1 ]	[ 2 ]	[ 3 ]	[ 4 ]	[ 5 ]	[ 6 ]
		Thousand Gallons Billed per Month for Twelve Months Ended June 30,					Change in 2010 Over (Under) 2009
		2006	2007	2008	2009	2010	
1	July	n/a	2,146.5	2,288.0	1,966.3	1,538.1	(428.2)
2	August	n/a	3,144.3	2,517.4	2,116.6	1,765.7	(350.9)
3	September	n/a	2,618.5	2,793.6	1,813.4	1,772.5	(40.9)
4	October	2,464.4	2,462.0	2,340.8	1,438.4	1,619.6	181.2
5	November	1,907.5	1,832.9	2,777.5	1,560.2		
6	December	1,651.0	1,972.7	2,003.9	1,281.8		
7	<u>January</u>	1,993.8	1,936.9	2,503.2	1,357.2		
8	February	2,070.6	2,703.0	2,979.1	1,252.4		
9	March	1,757.5	2,252.1	2,751.2	1,576.9		
10	April	1,767.0	3,771.1	1,718.3	1,323.3		
11	May	2,117.5	3,890.5	1,618.6	1,921.4		
12	June	2,269.9	3,473.7	2,246.2	1,687.7		
13	Total		<u>32,204</u>	<u>28,538</u>	<u>19,296</u>	<u>6,696</u>	<u>(639)</u>

**Pro Forma Estimate of Billable Usage in Test Year Ended June 30, 2010**

14	Eight Months From November 2008 to June 2009	11,960.9
15	Four Months From July 2009 to October 2009	6,695.9
16	Pro Forma Usage for billing in Test Year	18,656.8
17	Present Rate per Thousand Gallons	\$ 2.78
18	Pro Forma Test Year Revenue to MPU	<u>\$ 51,866</u>
19	Pro Forma Test Year Expense for WOM	<u>\$ 51,866</u>

**MOLOKAI PUBLIC UTILITIES, INC.'S RESPONSES TO WEST MOLOKAI  
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**DOCKET NO. 2009-0048**

**WMA-SIR-115      Re: Response to WMA-IR-505**

- a. Please provide a detailed accounting of all costs (labor, materials, freight, purchased services, chemicals, etc.) incurred in the operation and maintenance of MPL's three private utilities (i.e., Mountain Water System, Kualapuu Wastewater System and Maunaloa Wastewater System) during the years 2004 through 2008.

**RESPONSE:**

The Company objects to this SIR because it is outside of the scope of this proceeding. None of these operations are part of MPU and do not have any impact on the rate base, revenue or expenses of MPU.

- b. Identify each employee of MPL and its subsidiaries that participated in the operation, maintenance and management of the aforesaid private utilities during the years 2004 through 2008 by name, duties and duration of employment.

**RESPONSE:**

The Company objects to this SIR because it is outside of the scope of this proceeding. None of these operations are part of MPU and do not have any impact on the rate base, revenue or expenses of MPU.

- c. Identify each and every firm contracted to provide personnel or services for the three private utilities during the years

**MOLOKAI PUBLIC UTILITIES, INC.'S RESPONSES TO WEST MOLOKAI  
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**DOCKET NO. 2009-0048**

**WMA-SIR-115 (cont.)**

2004 through 2008, together with copies of applicable contracts, purchase orders, etc.

**RESPONSE:**

The Company objects to this SIR because it is outside of the scope of this proceeding. None of these operations are part of MPU and do not have any impact on the rate base, revenue or expenses of MPU.

**SPONSOR:**

Robert O'Brien

**MOLOKAI PUBLIC UTILITIES, INC.'S RESPONSES TO WEST MOLOKAI  
ASSOCIATION'S SUPPLEMENTAL INFORMATION REQUESTS**

**DOCKET NO. 2009-0048**

**WMA-SIR-116**

**Re: Response to WMA-IR-602**

- a. Please describe the amount of sedimentation that is "normal" in any water system of the Company's age, size and capacity in both qualitative and quantitative terms.

**RESPONSE:**

Sedimentation normally occurs in all water systems when materials are dislodged from water mains, pipes or other water production, delivery or distribution facilities. Also some minor particulates infiltrate the water system in the storage and other facilities. These are normally very minor, are usually removed in the treatment process and do not impact on the quality of water delivered to customers. However, where the water mains and other pipes in the delivery system have not been flushed and there is a disturbance to the water in those pipes, some of these particulates (sediment) dislodge and appear in the water provided by the system. In smaller and older systems, this sediment can periodically appear. MPU has not had a recurring problem with sedimentation in its system and takes necessary action when required to address this condition.

- b. Provide all studies in the Company's possession regarding sedimentation, infiltration, proposed recommendations, etc.

**MOLOKAI PUBLIC UTILITIES, INC.'S RESPONSES TO WEST MOLOKAI  
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**WMA-SIR-116 (cont.)**

**RESPONSE:** The Company has not conducted and does not have any studies regarding sedimentation, infiltration, proposed recommendations, etc. and therefore cannot provide any in response to this SIR.

**SPONSOR:** Robert O'Brien

**MOLOKAI PUBLIC UTILITIES, INC.'S RESPONSES TO WEST MOLOKAI  
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**WMA-SIR-117      Re: Response to WMA-IR-605**

- a.      Identify/describe the location(s) of the overflow pipe at the Puuokoli storage tank and the associated spillway onto open ground.

**RESPONSE:**      The overflow pipe is approximately 6 inches below the roof of the tank and drains into the spillway pipe that drains into the ground outside of the storage tank.

- b.      How often is the Puuokoli storage tank replenished?

**RESPONSE:**      Currently the storage tank is replenished daily, using a slow fill process to maintain a level of water required for supply operations. The replenishment is done Monday through Friday. Normal operation procedures provide for the daily review of the tank level so replenishment can be accelerated or slowed as required.

- c.      What *parameter or event* is monitored to ascertain that the tank should be replenished? (e.g., tank level below \_\_\_\_ ft.)

**RESPONSE:**      See response to part (b) above.

- d.      How much water is transferred during a typical replenishment cycle? How long does it take to complete the transfer?

**RESPONSE:**      The tank is replenished on a continuous basis using the parameters described in response to part (b) above. On

**MOLOKAI PUBLIC UTILITIES, INC.'S RESPONSES TO WEST MOLOKAI  
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**WMA-SIR-117 (cont.)**

average, replenishment of the tank begins on Monday morning and continues at an average flow rate of 0.7 million gallons per day. This provides a full tank of 2.0 million gallons by Friday allowing for outflows to provide for daily customer consumption. The water level in the tank is monitored daily and the replenishment flow rate is modified based on that water level to achieve a full tank by the end of the work week.

- e. Is the transfer started and stopped automatically? Or is the transfer controlled by an operator manually opening and closing valves?

**RESPONSE:** See responses to parts (b) and (d) above. These procedures minimize the chance of automated valve failure or other events that could cause an overflow.

- f. What parameter event is monitored to ascertain that the storage tank replenishment is complete? (e.g., high level switch/alarm, etc.)

**RESPONSE:** There is an Altitude Valve and a Level Indicator.

- g. Describe the practices, methods and/or controls, if any, that are employed to prevent excess transfers and overflows.

**RESPONSE:** See responses to parts (b) and (d) above.

**MOLOKAI PUBLIC UTILITIES, INC.'S RESPONSES TO WEST MOLOKAI  
ASSOCIATION'S SUPPLEMENTAL INFORMATION REQUESTS**

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**WMA-SIR-117 (cont.)**

- h. Identify/describe the location(s) of the overflow pipe at the Maunaloa storage reservoir and the associated spillway onto open ground.

**RESPONSE:** The overflow pipe is two feet under the base of the roof.

- i. How often is the Maunaloa storage tank replenished?

**RESPONSE:** The Maunaloa storage facility is replenished when the PWTP is in operation.

- j. What parameter or event is monitored to ascertain that the storage tank should be replenished (e.g., tank level below \_\_\_\_ ft.).

**RESPONSE:** Since the storage tank is replenished when the PWTP is running, normally four to five days per week, a low storage level is rarely reached. However, if the storage tank reaches a low mark of sixteen feet, replenishment is commenced or accelerated.

- k. How much water is transferred during a typical replenishment cycle? How long does it take to complete the transfer?

**RESPONSE:** The normal transfer rate is one million gallons per day for the four to five days per week depending on customer consumption.

**MOLOKAI PUBLIC UTILITIES, INC.'S RESPONSES TO WEST MOLOKAI  
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**WMA-SIR-117 (cont.)**

- l. Is the transfer started and stopped automatically? (Or, if the transfer is controlled by an operator manually opening and closing valves, explain the governing guidelines.)

**RESPONSE:** The process is controlled by an employee matching the flow from the PWPT.

- m. What parameter or event is monitored to ascertain that the storage tank replenishment is complete? (e.g., high level switch/alarm, etc.)

**RESPONSE:** A visual observation by an employee is the normal monitoring activity.

- n. Describe the practices, methods and/or controls, if any, that are employed to prevent excess transfers and overflows.

**RESPONSE:** Since the operation of the PWTP is monitored daily when in operations, manual observation is relied on to prevent excess transfers and overflows. In addition there is an automatic shut-down function that prevents overflows. The Company has not experienced an excess transfer or overflow that Company employees are aware of.

**SPONSOR:** Robert O'Brien

**MOLOKAI PUBLIC UTILITIES, INC.'S RESPONSES TO WEST MOLOKAI  
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**DOCKET NO. 2009-0048**

**WMA-SIR-118      Re: Response to WMA-IR-606**

- a.      How often are filter backwash cycles required and/or conducted? Are these determined by operating times (i.e., every \_\_\_\_ days), by the amount of throughput (i.e., after treatment of \_\_\_\_TG) or by some measured parameter such as pressure, flow rate, etc.?

**RESPONSE:**              Filters are backwashed every 12 to 18 hours during the PWPT operation. Backwash cycles are based on head loss of filters and the water effluent turbidity or water quality.

- b.      How long does it take to completely clean the filters and restore the effectiveness of the filter media?

**RESPONSE:**              The backwash process normally takes approximately fifteen minutes from start to finish.

- c.      Are the filters in all three modules backwashed and/or serviced as one event, or are the filters in each module backwashed and/or serviced on an individual basis?

**RESPONSE:**              The backwash procedure is performed on each filter separately.

- d.      What indication(s) or parameters are monitored to ascertain that the backwashing process is actually complete?

**RESPONSE:**              The water effluent turbidity is observed to determine when the backwash process is completed.

**MOLOKAI PUBLIC UTILITIES, INC.'S RESPONSES TO WEST MOLOKAI  
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**WMA-SIR-118 (cont.)**

- e. Describe the practices, methods and/or controls, if any, that are employed to prevent excess backwashing flows or durations.

**RESPONSE:** The backwash process is monitored by employees and the control timers in the Programmable Logic Controls are adjusted as necessary to optimize the backwash cycle. The level of turbidity in the backwash water effluent is the control factor to determine if the backwash is complete and avoid excess backwash flows or durations.

- f. How much water is used during one filter backwash cycle and is subsequently discharged?

**RESPONSE:** Based on Company calculations, 11,240 gallons of water is used per backwash cycle. The calculation is contained on Attachment WMA-SIR-107a.

- g. Is the discharged water accumulated in a holding tank, reservoir, clarifier or settling pond for subsequent treatment and/or reuse?

**RESPONSE:** The discharge water is drained in to a settling pond and then the discharge water is spread over the ground.

**SPONSOR:** Robert O'Brien

**MOLOKAI PUBLIC UTILITIES, INC.'S RESPONSES TO WEST MOLOKAI  
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**DOCKET NO. 2009-0048**

**WMA-SIR-119**      **Re: Response to WMA-IR-902**

Please provide copies of all billings to the County of Maui for each meter serving beach access points, County parks and other facilities during the period from 2004 through the present.

**RESPONSE:**      The Company does not have monthly billing data for each customer readily available. As described in response to several information requests, the Company has only a monthly billing record of approximately 60 pages and would have to review each monthly billing record to determine the monthly usage for each customer which would be unduly burdensome. The Company is willing to allow WMA to review these monthly billing records at the Company's office under the appropriate confidentiality agreement to list the monthly usage for each customer.

**SPONSOR:**      Robert O'Brien

**MOLOKAI PUBLIC UTILITIES, INC.'S RESPONSES TO WEST MOLOKAI  
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**DOCKET NO. 2009-0048**

**WMA-SIR-120**

**Re: Response to WMA-IR-903**

- a. Please identify the exact date when operation and maintenance of MPL's Mountain Water System were transferred to WOM. Describe the extent of operation/maintenance activities, if any, reserved to MPL and not transferred, assigned or delegated to WOM. Explain the reason for the changes in day to day management.

**RESPONSE:**

The Company objects to this SIR because it is outside of the scope of this proceeding. None of these operations are part of MPU and do not have any impact on the rate base, revenue or expenses of MPU.

- b. Please provide copies of all notifications, correspondence, public announcements and similar written documents pertaining to the changes in WOM's service territory, customer base, rate schedule, etc., resulting from the effective acquisition of MPL's Mountain Water System.

**RESPONSE:**

The Company objects to this SIR because it is outside of the scope of this proceeding. None of these operations are part of MPU and do not have any impact on the rate base, revenue or expenses of MPU.

- c. Provide a complete accounting of revenues, deposits and fees collected since the changes were implemented as well

**MOLOKAI PUBLIC UTILITIES, INC.'S RESPONSES TO WEST MOLOKAI  
ASSOCIATION'S SUPPLEMENTAL INFORMATION REQUESTS**

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**WMA-SIR-120 (cont.)**

as the book value of each and every asset effectively transferred to WOM's physical plant and facilities.

**RESPONSE:**

The Company objects to this SIR because it is outside of the scope of this proceeding. None of these operations are part of MPU and do not have any impact on the rate base, revenue or expenses of MPU.

- d. Please identify the exact date when operation and maintenance of the Kualapuu and Maunaloa Wastewater Systems were transferred to MOSCO. Describe the extent of operation/maintenance activities, if any retained by MPL and not transferred, assigned or delegated to MOSCO. Explain the reasons for the changes in day to day management of the two wastewater systems.

**RESPONSE:**

The Company objects to this SIR because it is outside of the scope of this proceeding. None of these operations are part of MPU and do not have any impact on the rate base, revenue or expenses of MPU.

- e. Please provide copies of all notifications, correspondence, public announcements and similar written documents pertaining to the changes in MOSCO's service territory,

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**WMA-SIR-120 (cont.)**

customer base, rate schedule, etc., resulting from the effective acquisition of these two wastewater systems.

**RESPONSE:**

The Company objects to this SIR because it is outside of the scope of this proceeding. None of these operations are part of MPU and do not have any impact on the rate base, revenue or expenses of MPU.

- f. Provide a complete accounting of the revenues, deposits, and fees collected since the changes were implemented as well as the book value of every asset effectively transferred to MOSCO's physical plant and facilities.

**RESPONSE:**

The Company objects to this SIR because it is outside of the scope of this proceeding. None of these operations are part of MPU and do not have any impact on the rate base, revenue or expenses of MPU.

**SPONSOR:**

Robert O'Brien

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**WMA-SIR-121**      **Re: Response to WMA-IR-119**

Please confirm that the water deliveries to the Manawainui Reservoir, as shown on the reports entitled "Molokai Properties Intercompany Water Sales" is potable water.

**RESPONSE:**      It is confirmed that those deliveries are potable water.

New Part (a)      Please describe the water sales listed as "Book 9 Industrial Ag" in the reports entitled "Molokai Properties Intercompany Water Sales". Potable or non-potable? What areas served? Please provide a customer list and total number of billings per month.

**RESPONSE:**      The water sales to customers included in Book 9 Industrial Ag are sales made by WOM and are not connected with MPU operations. As such the information requested is outside the scope of Docket No. 2009-0048 and is not being provided.

**SPONSOR:**      Robert O'Brien

**MOLOKAI PUBLIC UTILITIES, INC.'S RESPONSES TO WEST MOLOKAI  
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**DOCKET NO. 2009-0048**

**WMA-SIR-122      Re: Response to WMA-IR-301**

Please identify the type of pipe originally installed as water mains throughout the Kaluakoi service area. Ductile iron, asbestos concrete, PVC, or some other materials? Please provide specifications for said water mains including pressure ratings.

**RESPONSE:** All of the water main pipe is ductile iron. The size of the pipe ranges between 6 inches and 24 inches in diameter. The Company does not have pressure ratings for that pipe.

**SPONSOR:** Robert O'Brien

CERTIFICATE OF SERVICE

I (we) hereby certify that copies of the foregoing document were duly served on the following parties, by having said copies delivered as set forth below:

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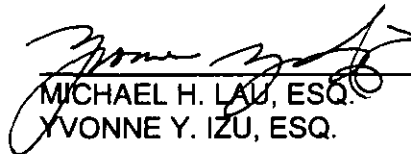
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DATED: Honolulu, Hawai'i, December 21, 2009.

  
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